

September 1989

# The National Locksmith®





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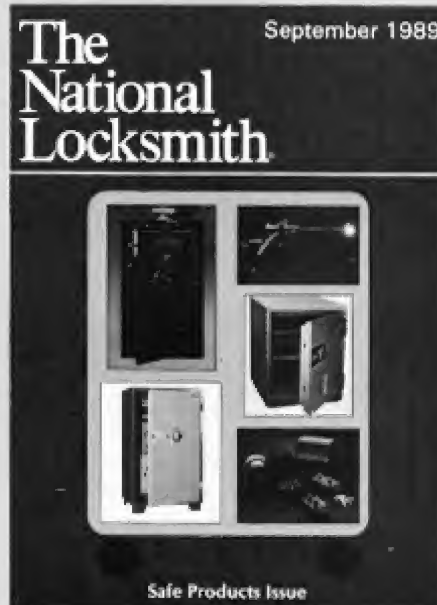
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#### On The Cover

This month's special Safe Products Issue features products from the following companies (from top left, clockwise): National Security Safe; Olympus Corp; Gardall Safe; Sargent and Greenleaf; and McGunn Safe.

**Click on the article  
you wish to read**

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# Commentary

## Our Proud Profession

Put two locksmiths together in a room and I can tell you exactly what is going to happen. They are going to sit down and chew the fat about our profession. Plus I can predict another fact. Two locksmiths together in one room are going to produce *three* opinions.

All too often we sit around and discuss the things that are wrong with locksmithing. Like all professions, ours has its disadvantages. But I want to stop the world for a minute and tell you about the things that make locksmithing one of the best professions in the world.

Locksmiths care. Virtually every member of our trade whom I have ever met cares deeply about the trade and the industry. How many people do you know who work in offices and hate their jobs? I know plenty of them. Sure, locksmiths complain some just like everybody else. But I never met a locksmith who hated his job and just didn't care.

Locksmiths are opinionated. That's why I said if you put two locksmiths together in one room you'll get three opinions. I never met a locksmith who didn't have strong opinions. Sometimes you and I argue about my Commentaries in this magazine. That's because I have strong opinions too. And why shouldn't I? My great-grandfather, Max Taylor was a locksmith who started Taylor Lock Company. My grandfather Nathan Schwartz later was president of Taylor Lock. My father Barney Goldberg has been selling products in the locksmith industry since the fifties. That makes me opinionated to the fourth generation.

But maybe that's why I love this industry...because almost all of you love it too. Locksmiths value education because they value their job. How many industries see thousands of people studying to pass difficult tests on their profession? How many industries gobble up their trade magazines the way locksmiths do? I don't think there are many other fields equal to locksmithing.

Locksmiths are willing to share. In the bad old days, locksmiths used to be afraid to talk to each other for fear of spilling jealously guarded trade secrets. But today, associations and publications help locksmiths communicate and trade ideas with one another. Locksmiths are always interested in meeting with others in the trade.

So the next time a cop beats you to a lockout call, or the price cutter down the street beats you out of a job, just stop, take a deep breath, and remember that this is still one of the best jobs in the world.

\*\*\*\*\*

Congratulations to Debbie Schertizing who has long been our Editorial Assistant. She is now working as an Advertising Sales Associate. And welcome aboard to Ronnie Razzano, new Editorial Assistant.



*Marc Goldberg*  
Editor/Publisher

September 5



# Letters

Comments, Suggestions and Criticisms

*The National Locksmith is interested in your view. We do reserve the right to edit for clarity and lengths. Please address your comments, praise, or criticism to: Editor, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107. All letters to the editor must be signed.*

## Wanted Fugitive Poses As Locksmith

*Editor's Note: We have received notice from the FBI regarding a man who has posed as a locksmith in the past and is currently a wanted fugitive. Following is a brief description and background of this man. If anyone has seen this man or knows of his whereabouts, please contact your local police department or the nearest FBI office.*

Alphonse Bartkus was arrested by the Detroit Division of the Federal Bureau of Investigation, on December 7, 1985, for possession of cocaine, following the execution of a Federal search warrant upon the vehicle driven by Bartkus. He was due to appear in court on December 9, 1985, in order to post bond, following his release on December 8, 1985, in the custody of his attorney. On December 9, 1985, Bartkus failed to appear and a warrant was issued on December 10, 1985, on that basis.



Alphonse Bartkus

On December 18, 1987, Bartkus was indicted by a Federal Grand Jury in the Eastern District of Michigan, charging him with conspiracy to possess with intent to distribute, and distribution of cocaine. Bartkus faces a possible one million dollar fine and a maximum sentence of over 90 years if convicted as charged.

Bartkus has a history of convictions for armed robbery, carrying a concealed weapon, battery, theft, counterfeiting, assault with a deadly weapon, and theft from interstate shipment, dating from 1945. Bartkus is known to have owned and operated a locksmith shop in Cicero, Illinois, prior to his arrest in 1985, and is believed to have done general locksmithing and safe service for area banks.

Alphonse Bartkus is also known as Alphonse Peter Bartkus, Albert Bartkus, David Grant, and David Cavanaugh. He is a male Caucasian, born February 18, 1928 (also uses April 15, 1930), in Illinois. He stands 6'4" tall, weighs 210 pounds, has gray hair and blue eyes. His last known address is 2808 Austin, Cicero, Illinois. He has marks, scars and tattoos on the right arm, left arm, right forearm, left forearm, and a scar on his back. His Social Security Account Number is 361-12-7513; driver's license number, Illinois B6320028049. The FBI has developed information that Bartkus has shaved his mustache, lost weight and dyed his hair a sandy brown color, and may be in the New Jersey area.

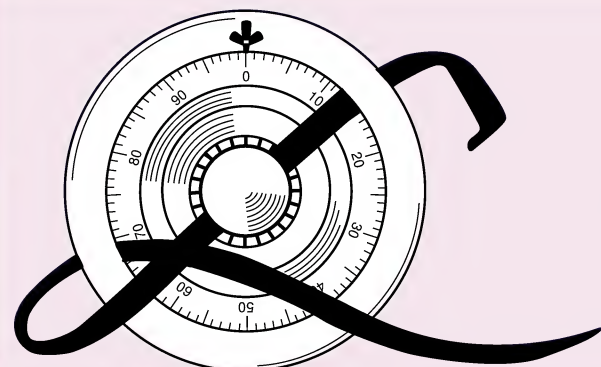
Bartkus is considered *armed and dangerous* and has an extensive criminal record involving armed confrontation with victims and police officers.

Federal Bureau of Investigation

## Locksmith Angered By Corporate Pay Scale

Within the past two weeks a large corporation in Fort Worth, TX has hired a new locksmith. The wage is \$6.50 per hour and he must furnish all his tools and kits.

This wage is below the going rate for clerks in this corporation and this person must work on some of the best



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locks in the industry on a master/grandmaster key situation that protects the corporate offices and the other tenants of this large building at the north end of town.

This is a company that furnishes components that are used in locksmith shops across the nation as well as other electronic items the locksmith wants and uses at his shop as well as home.

I have visited the building as well as other large office buildings in this area and have found cylinders upside-down as well as other things an experienced locksmith would never do. I do not know how this person can survive on this pay and can only assume that this is the reason they keep changing locksmiths. The corporation calls in outside locksmiths with an hourly rate of \$35.00 or better to service the file cabinet locks.

Is there some way the associations can educate the large corporations on the need to have qualified locksmiths on the payroll, (i.e. RL, CML, or CPL) to give them proper work and protection? Damage to the cylinder alone due to files is extensive, along with the misuse of the master key systems which

leaves them open to unauthorized entry.

There have been verbal assaults at road shows in the past month or so about pricing for locksmith work. Price fixing is against the law but all locksmiths should receive a fair return for his or her services, as a person cannot remain in business let alone keep a home on the prices some of the shops charge. The main excuse used is that the lumber yards and hardware stores charge less and we have to stay down with them which is not true. We, as locksmiths, do a service that the customer cannot get at these places and is the reason they come to us. You have to charge for what you do. Time is money.

Kenneth Adcock  
Arkansas

### Sharp Eye Notices Upside-Down Photo

My letter is in reference to the Dale Libby article on page 26 of the July 1989 issue of *The National Locksmith*.

I've known of Dale Libby for years, as a prolific writer pertaining to safe-work. I did not know that Dale had the

unusual talent for installing locksets while standing on his head.

According to photograph one on page 26, that is about the only way he could have installed the Schlage Key 'N' Keyless lockset, and afterward taken the photograph of the installation. Nice going, Dale.

The only other possible way this photograph could have been printed as shown...and that possibility is too remote to contemplate, is for the stripper (printer) to have turned the negative 180 degrees (upside down).

I've tried to install one of these locksets as shown in the photograph, but I'm convinced that it is easier and faster to install them right side up. Of course, one could turn the magazine upside-down for the correct view, but that may cause some confusion.

As a former editor, printer/typographer-turned-locksmith I could not resist bringing this matter to your attention...of course I could be wrong, and the photograph of the installation could be correct.

Wynn Kessler  
California

*Editor's Note: Oops!*

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# Technitips

Helpful Hints from Fellow Locksmiths



Send me your Technitips. Who knows, you may be our next winner! c/o The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Robert Sieveking

*There are some very good ideas presented here but there is still room for a few more. The best tip of the year has not necessarily been seen yet. The one Technitip that will clearly stand out above all others may be languishing in somebody's ballpoint, or still hidden on a typewriter ribbon somewhere, disguised as a black stripe. If you would distinguish yourself in the industry by having your ideas and Technitips published, be shaking that ballpoint. You may shake out a winner, and end up with a new key machine or a set of the finest code books in the industry. At the very least, you will be recognized in this column and receive "locksmith bucks." Locksmith bucks can be used to buy knowledge, in the form of books, from an impressive list of current material written by some of the nation's finest locksmiths and writers.*

*Specific knowledge is the most important tool any technician can possess.*

## September's Best Tip

This Technitip came about when the owner of a local business asked to have the inner cylinder of a mortise lock replaced with a thumbturn. He explained that the hired help had to be able to lock and unlock the front door at certain times to do chores, but he was unwilling to trust them with a key to the shop. Because of the glass in and around the door, I explained that a thumbturn might prove to be more of a liability than a convenience.

The solution to this problem was to submaster the inner cylinder to the outside cylinder. This allowed the help to have a key that would operate the inside cylinder. Their key would lock and unlock the door from the inside as necessary but would not operate the outside cylinder. The owner's key was made to operate both the inside and outside cylinders, which allowed him to carry only one key. This Technitip

solves the access problem while preserving the security of the double-cylinder lock.

The mastering was accomplished using high cuts in the master key and lower cuts in the secondary key. This was done to prevent the secondary key from being modified to operate the outside cylinder.

Rodney Fuentes  
Texas

\*\*\*\*\*

The following are a couple of little tips that I'm sure the craft will find useful.

The first Technitip is for a "screw hinkey." Screw hinkey is the technical term for a special tool which will allow you to shorten the tiny cam screws used on mortise and rim cylinders, using a grinder, without the chance of burning your fingers, grinding your fingers or fingernails or losing the screw all together in the process.

This rather ingenious tool, shown in illustration one, has a hole at one end to accept the tiny screw. Pinch the tool together, to hold the screw, and the

## How To Enter

All you need to do to enter is submit a tip, covering any aspect of locksmithing to *The National Locksmith*. Certainly, you have a favorite way of doing things that you'd like to share with other locksmiths. Why not write it down and submit it to: Robert Sieveking, Technitips' Editor, *The National Locksmith*, 1533 Burgundy Parkway, Streamwood, IL 60107.

Tips submitted to other industry publications will not be eligible! So get busy and send in your tips today! You may win cash, merchandise, or even one of many key machines or code book sets! At the end of the year, we choose the winners of the listed prizes.

Last year dozens of people walked off with money and prizes. Wouldn't you like to be one of the prize winners for 1989? Enter today! It's a lot easier than you think!

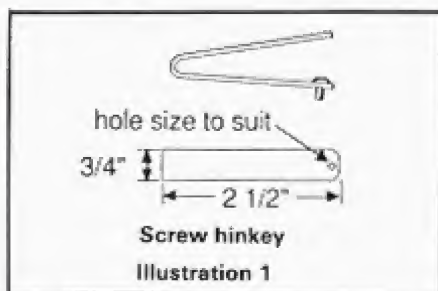
## Every Tip Wins 'Locksmith Bucks!'

Yes, every tip published wins a prize. But remember, you must submit your tip to *The National Locksmith* exclusively. Each and every tip published in Technitips wins you \$25.00 in Locksmith Bucks! Use this spendable cash toward the purchase of any books or merchandise from *The National Locksmith*. You also receive a Bonded Locksmith bumper sticker, decal and patch. Plus you are now eligible for the really big prizes!

## Best Tip of the month prizes!

If your tip is chosen as the best tip of the month, you will win \$50.00 in cash as well as \$35.00 in Locksmith Bucks! Plus you will receive a quartz Locksmith watch, a Bonded Locksmith bumper sticker, decal, patch and a Locksmith Cap. Plus, you may win one of the great prizes pictured above.

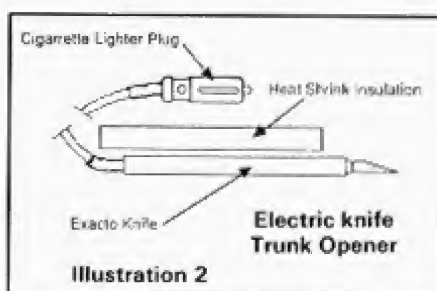




length can be adjusted on a grinding wheel without danger. If a hole is drilled in both sides of the hinkey, a screwdriver can be used to turn the screw as it is being shortened to chamfer the tip. This tool makes grinding screws a lot safer.

The second tip concerns opening the trunk of an auto that has an electric trunk release, when the keys have been locked in the trunk. The tool is made from a cigarette lighter plug, a length of insulated hook-up wire, a small handled Exacto knife and a piece of heat shrink insulation.

The tip terminal of the cigarette lighter plug, which is the positive terminal in most cases, is electrically connected to the Exacto knife using the hook-up wire. The metal body of the Exacto knife is then insulated, using the heat shrink tubing, to prevent the



knife from causing an accidental spark while in use. (See illustration 2.)

To open the trunk, pop out the switch from the glove box with a small screwdriver. Remove the cigarette lighter and plug the tool into the cigarette lighter socket. Slide the sharp tip of the knife into the back of the trunk release switch electrical plug. The electrical contact will cause the trunk release to open the trunk. If the release does not operate, push the button while maintaining the electrical contact.

If you are unable to remove the switch to gain access to the plug, reach up behind the glove box to find the wire harness, and use the sharp edge of the knife to make contact through the insulation. This will also operate the trunk release. If you cut the wire insulation, repair the cut with a good grade of

plastic electrical tape to prevent a possible short or electrical fire.

Bob Biebner  
South Carolina

\*\*\*\*\*

This Technitip deals with a unique method of removing a broken key from a lock, when other normal methods fail. If the key is jammed or stuck tight in the keyway and refuses to be extracted, try shocking the plug with a punch and hammer. This method can sometimes be used to jar the key out of the plug far enough to get a grip or hook into the key.

Use a large diameter punch, on either side of the keyway, on the face of the plug. A few sharp blows will cause the broken key to rise out of the plug. This method should be used only as a last resort, just before drilling the lock. If you strike the lock too hard, you may dislodge the cylinder from the lock body and destroy the lock, but I have had good results with this method.

Martin Koppel  
California

\*\*\*\*\*

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This tip may be old hat to most locksmiths, but I found it very helpful recently when I had to remove a broken key from an Abus Discus padlock. The Abus lock has a hole directly in line with the keyway, in the rear of the lock. By pushing a straight pick or wire tool through the hole, a broken key or other debris can be pushed out of the lock quite easily. This is a very nice feature of the Discus lock.

Berkley Ruiz  
Georgia

\*\*\*\*\*

Here is a tip on a method of picking the Yale Champion six lever push-key type padlock. The padlock is fairly easy to pick if the pulling bracket shown in illustration three is used to put tension

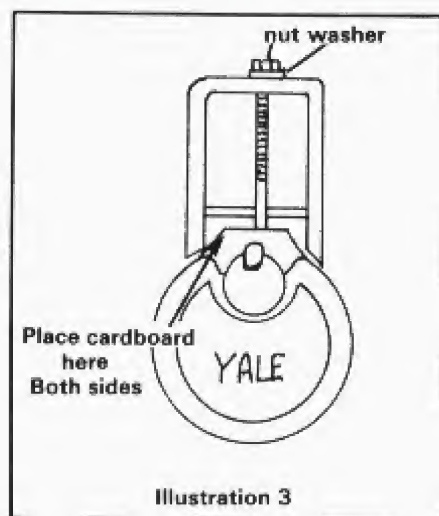


Illustration 3

on the locking mechanism.

Make a bracket of 3/16" strap iron and a hook from a 1/4" eye bolt,

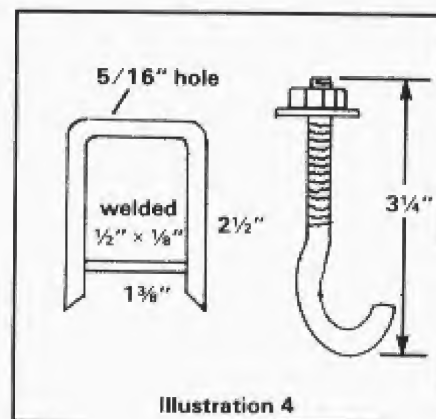


Illustration 4

straightened to form a "J". The eye bolt passes through the top of the bracket as shown, and a nut is used to put the tension on the lock bolt. By placing the lock in the bracket, as shown in illustration four, the levers can be picked one at a time by feeling out the tight levers first. As each is picked, the bracket will loosen slightly, requiring the nut to be tightened. Do not force the lock with the fixture. It is a tension tool, not a force tool. If you force the lock, it will be ruined.

If you are called away from the job for a time, the lock will remain in the partially picked condition until you return.

Once picked, the levers can be decoded by reading, impression using a smoked key, or by the use of a reading tool that imitates the key by the use of sliding fingers (much like a tubular pick).

Richard Pope  
New York

\*\*\*\*\*

This tip is for a nifty way to salvage a broken pair of needlenose pliers and at the same time make a very useful tool if you work on automotive locks. The tool, shown in illustration five was made from a pair of needlenose pliers that had one of the tips broken. By

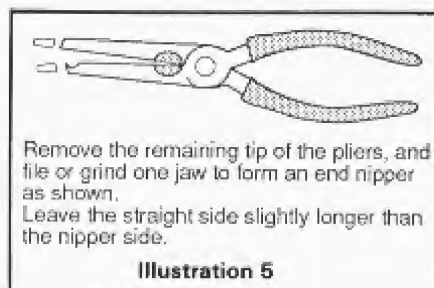


Illustration 5

regrinding the jaws as shown in the illustration, you will have a tool that will remove the face caps from most automotive locks without damage to



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the lock, and without cutting your fingers on the ragged metal of the torn cap. I have found this design to be superior to the type that have the nipper jaw on both sides of the pliers.

Terry Shoots  
Kentucky

\*\*\*\*\*

This Technitip concerns the method I use to remove the lock plate retaining ring on GM columns. I know that this is a real problem to many locksmiths, so I am submitting this tip for your readers.

After compressing the lock plate with a lock plate compressor, move the opening in the retaining ring to the 3 o'clock position. Insert a screwdriver into the space between the lock plate and the retaining ring at the 6 o'clock position and twist. This prevents the retaining ring from sliding around the shaft. Insert an ice pick or sharp scratch awl under the end of the retaining ring as shown in the diagram (see *illustration 6*), and lift or push the retaining ring out of the groove.

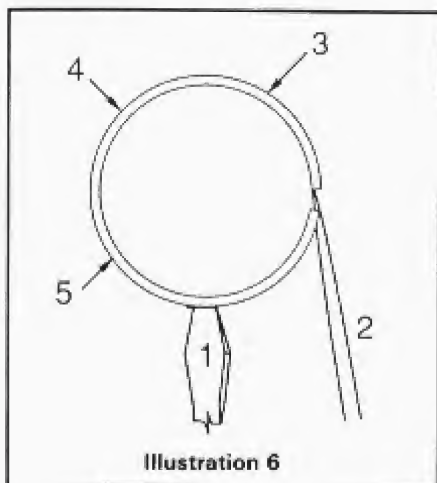


Illustration 6

Hold the ice pick firmly in the groove to prevent the ring from snapping back in place. The end of the ring is now out of the groove and riding up on the steering shaft. This binds the ring so the screwdriver can be moved to position #3. Twist the screwdriver to lift the ring further out of the groove and follow it around with the ice pick, to prevent the ring from snapping back into the groove. Move the screwdriver and ice pick around the shaft as shown in the diagram until the retaining ring is free of the groove. Use the screwdriver and ice pick to slide the ring up the shaft and onto the body of the lock plate compressor to complete the removal.

The trick to making the removal easy

is in the first step, binding the ring with the screwdriver to prevent it from sliding around as it is being started out of its groove. The rest is fairly simple.

Patty McCandless  
Arkansas

\*\*\*\*\*

This Technitip is for the modification of a pocket knife to suit the special needs of the locksmith. A few minor modifications to the folding blades will allow you to carry a tool that will tighten a cylinder or remove a lock without running back to the truck. (See

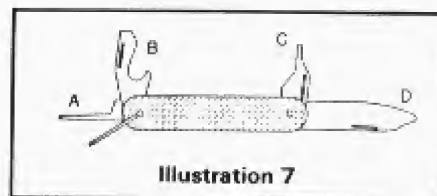


Illustration 7

*illustration 7*.) From left to right: (A) The awl blade has been reground to form a poke tool for depressing knob retaining clips. (B) The can opener has been modified to form a spanner wrench for the Schlage "D" series locksets and the straight screwdriver has been ground to grip the screws better. (C) The bottle cap lifter has been

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ground to form a small thin blade screwdriver for Adams Rite set screws. (D) A rounded screwdriver is ground to fit #2 phillips type screws.

I carry the pocket tool when giving quotes and surveying a job. If a screw needs tightening or a knob rose is loose, it only takes a moment to tighten or remove the lock and you don't have to run back to the truck. The spanner is very handy for the heavy duty locksets.

R. Lazich  
Wisconsin

\*\*\*\*\*

When business is slow, instead of sitting around waiting for the phone to ring, why not go out to see some of your past customers or a few new ones. You are your best and most effective advertiser. By selling yourself to new customers, you will gain business.

Though door to door sales in a neighborhood may not be the best method of selling service, talking to the managers and owners of the businesses in a small strip mall or business district will surely find some new business. Look sharp and be professional. Sell yourself and your service and profes-

sionalism, not low price. Competitive prices are important, but not the only reason customers buy.

If you service the locks at one store in a mall, you should at least introduce yourself and leave a card with the managers of the stores on either side of the one you serviced. Let them know that you would welcome their business also. If the call is on a past customer, ask if your service was satisfactory and if the locks are still in good working order. Offer to check the locks if necessary.

William Knost  
Oklahoma

*Editor's note: Always leave the prospective customer with something that has your name on it. A business card, small calendar or telephone sticker will keep your phone number handy after you've gone. If you sell a key or keys on these calls, stamp your shop name and phone number on the keys. A complimentary key can be a very inexpensive piece of advertising if used properly.*

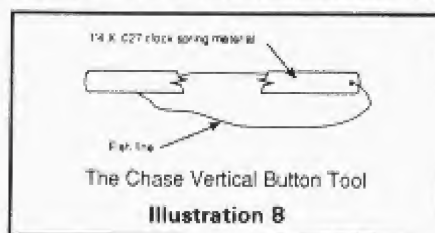
*Service is the only thing you have to sell; the keys and locks are incidental to the service. Professional service is your stock and trade. It is the one thing that no discount store or hardware house*

*can sell. If you are truly a professional, you will be proud of the quality of your service which makes it easy to sell. The above tip will make you money.*

\*\*\*\*\*

This Technitip is one of the fastest methods I have found to open autos with vertical locking buttons.

The tool shown on illustration eight is made from a piece of the recoil starter spring from a lawn mower. It can be cut to any length you desire. It is .027" x 1/4" clock spring material, so it is very easy to bend and manipulate around the edge of a door. Drill or punch a hole at the tip of the spring as shown in the illustration. File the hole and the tip of the tool smooth so it will not scratch the finish of the auto or cut the fish line.



Continued on page 108



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# Newsmakers

New Products and Industry News

## Dexter Expands With New 'Danbury™' Knob

Dexter by Master Lock has expanded its Dexlock and Duralock door hardware lines with the new Danbury™ knob. Designed to complement traditional homes, the Danbury features solid brass and steel construction, and comes with a bright brass, antique brass, bright chrome, or satin chrome finish.

The Danbury is available in all the popular selling functions, and may be supplied with a "DC" keyway which is compatible with Schlage, Baldwin and other C-type keyways. Other keying combinations can be furnished.

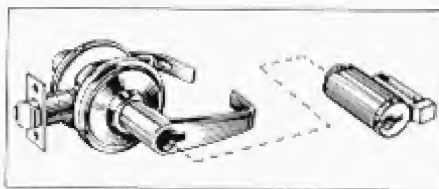
All Dexter locksets are backed by a full lifetime warranty.



## Lori Introduces 1505 Key Removable Cylinder

Lori Lock developed a new line of 1505 cylinders, for the Kwikset 500 Series Key-In-Lever lockset, and introduced it at the 1989 ALOA Show.

Lori Lock is introducing a family of cylinders in three keyways to complement the popular Kwikset 500 series Key-In-Lever lock. These keyways are the Schlage P (C-L), Russwin D1 and Corbin 60, to provide alternative security solutions for end users.



The new 1505 cylinder is available in US3, US5 and US26D finishes. It is drilled six pin, pinned five and furnished standard with two change keys and one control key. These cylinders compliment Lori's expanding product line of solid brass, American made, key-in-knob, key-in-lever, mortise rim and profile cylinders, which retrofit into most of the popular locksets sold in America.

## MDS Incorporated's New Focusing Borescope

An economical and completely portable, focusing Borescope has been developed by MDS, Incorporated.

Sharp, clear undistorted magnified mirror images of inspection areas are provided with a series of optical side wall probes. (OD's are 3mm-9mm, focusing from 0 to infinity). A variable light control on the lightweight "C" cell size power handle assures the user of maximum illumination in darkened cavities.

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## M.D. Kramer's Taurus "B" Machine

The Taurus "B" semi-automatic key machine is available from M.D. Kramer Locksmith Supplies Corp. The ease of operation makes Taurus "B" a very advanced and accurate machine.

Features include: all metal solid construction, vices to hold practically any type of key made, and four-sided serrated vices that have the ability to cut single and double-sided keys. This machine cuts generation after generation, and cuts 98 percent of all pin and wafer key blanks. It has an adjustable



key guide, a special high-grade steel cutter for clean, precise cuts, a deburring brush, and a high performance motor.

## Security Lock Distributors Moving To A New Location

Security Lock Distributors announces the relocating of their office and warehouse facility to Needham Heights, Massachusetts. Over 12,000 square feet of space will allow them to stock a great depth of inventory available for immediate shipment.

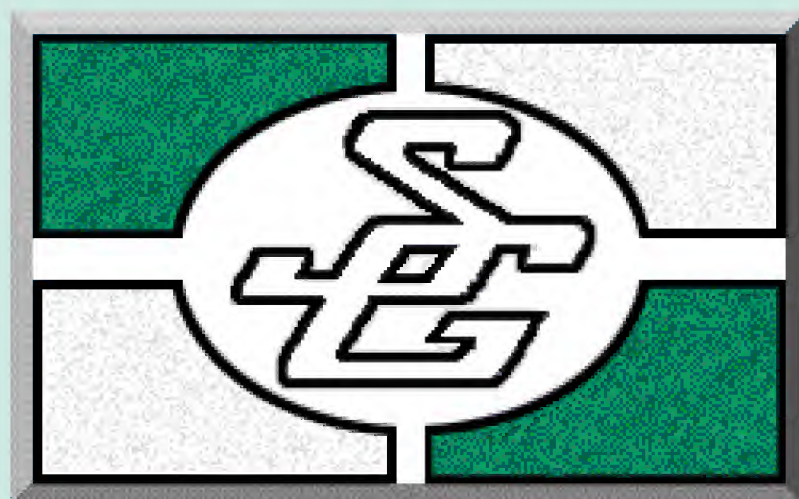
Specializing in Arrow Products which include locks as well as their expanded lines of panic devices, exit alarms, heavy-duty handle lever sets and door closers. Security Lock also carries complete inventories of Adams Rite, Locknetics Security Engineering, Folger Adam, Simplex, American Padlocks and Bommer Mailboxes.

## Dugmore & Duncan Adds New Products

Dugmore & Duncan is now a full stocking distributor of Don-Jo products. Don-Jo manufactures a complete variety of door and frame accessories including latch protectors, push and pull plates, filler plates, and armor plates.

The newest Don-Jo product to be introduced is "the Classic Wrap-Around," an armor plate which features stainless steel threaded inserts for the latch mounting screws. These inserts provide permanent holding power so the latch won't shake loose after installation (a problem common to armor plates). The Classic Wrap-Around also provides protection and saves on costly door replacement.

By adding Don-Jo products to their existing inventory, Dugmore & Duncan customers are now able to purchase Sargent products and Don-Jo door and frame accessories from one source. They also continue to maintain a complete variety of Sargent products.



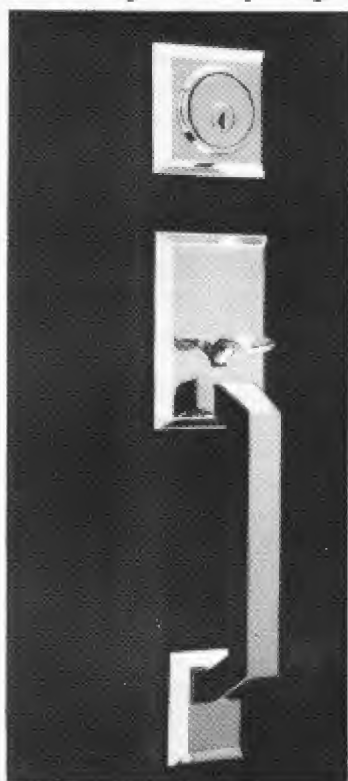
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## National Lock Corp. Introduces Entry Handle

National Lock Corp., is introducing the Estate™ — a solid brass entry handleset designed and packaged for



use in both builder and DIY markets. Available in bright and antique brass, this new model features clean lines for a contemporary look and a matching deadbolt for added security.

The Estate is packaged for retailers in National Lock's new handle-pack carton. This attractive new package design allows for maximum product visibility and provides an eye-catching merchandising tool. The Estate is also available in the boxed builder-pack carton, designed specifically for builder/contractors.

## Trans-Atlantic Co. Catalog Available

Trans-Atlantic Company, an importer of commercial and residential grade builders' security and shelf hardware, has just completed its 1989 catalog. To secure a copy, contact Trans-Atlantic Co.

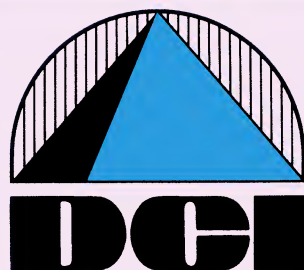
The catalog is available free to the trade. It contains illustrated information on the wide spectrum of hardware products available from the Trans-Atlantic Co.

## Jet Hardware's New 'Silver Line'

Eight years ago, Jet Hardware introduced their "Ditto Plus" line of key blanks. Ditto — the same as everyone else, and Plus a brass key blank, with a neatly incised identifying number and a resembling design to the factory originals.

Jet now announces the expansion of their Silver Line series of key blanks. The Silver Line, has over fifty key blanks available in both the silver color and incised designs to resemble the major lock manufacturers originals. All of Jet's standard numbering has been removed from the blanks and the new stock numbers which occur on the packaging, are the same as original equipment.

Currently, all of "Best's" keyways, from A to Q, "Medeco's" AIR and SKY, and "Schlage's" C, CE, E, EF, F are manufactured in nickel silver. The remainder are nickel plated to match manufacturers originals.



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### Keydex Keysaver Holds Spare Keys

The patented Keysaver by Keydex looks like an ordinary credit card, yet holds two spare keys flat and secure in a wallet or purse.

Keysaver comes in four tasteful colors and is available in high-impact countertop displays or blister card packaging.



### Dalax Inc. Introduces Cross Reference Manual

Dalax Inc. announces that their copyrighted Builders' and Lock Hardware complete cross reference manual is now available. The reference book contains over seventy-five pages and

two thousand lines of detailed comparison information which covers all of the primary lock hardware products.

Presented in this manual is the comparison of: Arrow, Best, Corbin, Dexter, Falcon, Kwikset, Lockwood, Monarch, PDQ, Precision, Russwin, Sargent, Schlage, Von Duprin, and Yale. Also included are standard keyed, interchangeable and removable core locks, functions, knob, lever, escutcheon and panic trim designs.

Circle 332 on Rapid Reply

### Lockmasters Debuts Magnum 457 Drill Rig

Lockmasters, Inc. and Magnum Manufacturing introduced the new Magnum 457 Drill Rig during the 1989 ALOA convention in Atlanta, GA.

The new Magnum 457 Drill Rig is designed to attach to free-standing containers using new high-powered magnetic feet for quick and easy attachment without the need of chains or straps.

The Magnum 457 handles tough hardplate and is available exclusively through Lockmasters, Inc.

### Blackhawk Products' Cross-Reference Software

Blackhawk Products announces its recent update of KBX: Key Blank Cross References software. Many blanks made by Silca and Borkey have been added, as well as new ones from Ilco, Jet, ESP, Curtis, and other manufacturers. Over 35 manufacturers are represented.

KBX saves you the effort of looking through various catalogs to find a substitute for an unfamiliar key blank number. Information is quickly and easily retrieved just by running the program and typing in the key blank number.

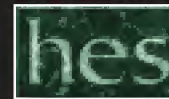
KBX now contains over 18,000 pin and wafer-tumbler key blanks grouped according to keyway, blade length, shank length, and bow material. In addition, you can attach your own label to each group of blanks.

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## Lori Lock Products

"Every cylinder that leaves your store can bear your name and telephone number. This kind of advertising will work to continually promote your company."

by Jerome Andrews

*Jerome Andrews is Kaba Customer Service Manager at Lori Lock in Southington, CT. A locksmith for over twenty years, he is currently a member-at-large of the ALOA Board of Directors.*

Consistent with a commitment to provide superior service and innovative solutions for their customers, Lori Lock introduced several new products for the professional locksmith at the 1989 ALOA show in Atlanta. The Autograph Cylinder Program is designed to reduce cylinder inventory, save time, and keep your name before the public. Extend-a-Cylinder is a service oriented concept, enabling you to make extra-long mortise cylinders whenever you need them. Both the Autograph Program and Extend-a-Cylinder are patent pending. The new 1505 replacement cylinder for Kwikset's 500WL key-in-lever lock will be helpful to locksmiths as code requirements nationwide cause demand for these locksets to increase. Let's look at each of these new products in more detail.

We'd all like to reduce cylinder inventory. When you consider keyway and length alone, you already have dozens of mortise cylinder variations. Multiply those variations by the finishes and

inventory quickly becomes an enormous problem. Now you can substantially cut your inventory. Typically, brass mortise cylinders receive their finish by the application of a "scalp" to the face of the cylinder. The scalp is plated or otherwise treated to give the proper hardware color such as US3 or US26D. Until now, only the factory could perform this step. The Lori Autograph Cylinder Program allows you to make the cylinder in the finish you need, instantly, by attaching the scalp yourself at the time of the sale.

For this program, Lori's solid brass cylinders are sold without the scalp. Inexpensive scalps are sold separately in packs of 10. Working from a low inventory of scalpless cylinders and using Lori's fixture and crimping tool, you attach the scalp to the cylinder. All it takes is a couple of light taps with a mallet. The operation can be performed in the shop or on the road and takes only seconds to do.

The Lori Autograph Cylinder Program is easy to use and cost effective. The cylinder kit is all you need to get started. It contains 15 mortise cylinders in the Schlage C keyway with brass plugs: 5 each 15/16", 1 1/8" and 1 1/4". It also contains 30 scalps and 30 5/32" collars (10 of each in three popular fin-

ishes US3, US26D and Duranodic), 30 assorted cams and spare cam screws. The scalps, collars, cams and screws are furnished in a soft plastic kit which also holds the tools you need: the scalp holding fixture, the scalp crimping tool and the scalp stamping tool. The entire kit (cylinder, parts and tools) come packed in a red Plano tool box along with a pair of safety glasses, compliments of Lori Lock. (See photograph 1.)



1. The complete Lori Autograph Cylinder kit.

In the starter kit you will find an order card for the personalized stamping die. It will show you how to order your own Autograph die which you then place in the scalp holding fixture



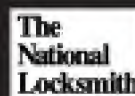
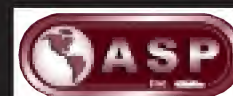
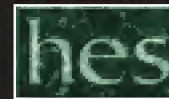
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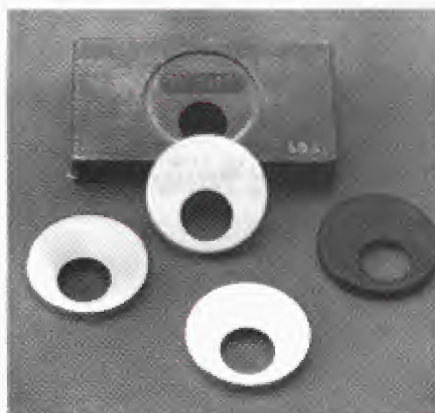
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that comes with the kit. There is a one time charge for the manufacture of the die to your specifications. (See photograph 2.)

By stocking scalpless cylinders with brass plugs you can make cylinders in US3, US4, US5, US10, US10B, Duranodic, and US19. Using scalpless cylinders with chrome plugs you can make cylinders in US26, US26D and US28 in the same way. No longer do you have to tie up cash in stock or lose a sale because you do not have the finish you need in stock. The scalps can be applied either to uncombined cylinder shells



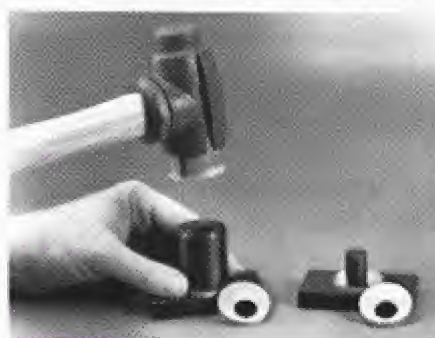
2. The optional die will put your name and phone number on every cylinder.

or to combined cylinders.

Autograph is also a time saver, eliminating trips back to the shop because someone gave you the wrong finish information. New scalps can be used to revive dead stock. Overstock in slower moving finishes can be turned into profit on the spot. There are other advantages as well. If you have keyed a group of cylinders for a certain job and find that the finish is incorrect, you can save all your bench work by tearing off the incorrect scalps with a side cutter or scalp pliers and replacing them.

But inventory reduction is only half the story. Lori offers locksmiths a unique mode of advertising. The scalps in the program are plain with no name on them. From the order card that comes with the starter kit, Lori will furnish a personalized die. Every cylinder that leaves your store can bear your company name and telephone number. This kind of professional, understated advertising will work continually to promote your company, and when customers need service they will be able to find you immediately just by looking at the lock on their door.

The tools are easy to use. You need a firm stamping block or vise anvil. A brass hammer or wooden mallet is recommended. You place the scalp of the needed finish in the holding fixture, place the stamping tool on top and give it a few light taps. This operation is done if you are personalizing the scalp with your name. (See photograph 3.)



3. A few light taps puts your "autograph" on the scalp.

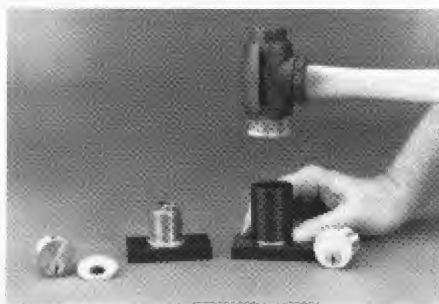
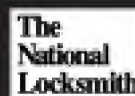
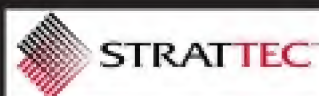
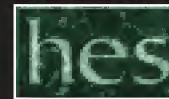
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Then you turn the fixture over, place the scalp over the head of the cylinder and set them both down on the surface of the fixture with the plug face in the locator hole. You put the scalp crimping tool down over the cylinder and strike it a few times to fix the scalp to the cylinder. It looks just like the factory but with *your* name. (See photograph 4.)

Ordering additional cylinders and scalps is easy, especially for those already familiar with Lori's part number-





4. The crimping tool is used to attach the scalp.

ing system. Scalps are available in ten different hardware finishes. The part number for the Autograph scalps is 4100-xx-2054. The standard Lori finish codes go in the center where the x's are. For example, 4100-04-2054 is the Autograph scalp in satin brass. The part number for the cylinders is equally simple. Where the two finish characters would go, OB and OC designate brass plugs or chrome plugs respectively. For instance 4200-OB-1-29-200 specifies a 1" mortise cylinder, brass plug-less scalp, Corbin 60 keyway, Adams Rite cam. Like other Lori cylinders, scalpless cylinders may be ordered KA, KD or 0-bitted.

Adding even more versatility to the Lori cylinder line are the new Extend-a-Cylinder kits. Extra long cylinders

for thick doors have always been a special order item—they cost more and take months to get. Lori Extend-a-Cylinder kits let you make special cylinders *in the length you need from your stock* just by drilling and tapping two holes on the back of a Lori standard mortise cylinder. Thick doors and locks with special trim are no longer a problem.

Starting with the finish and keyway you require, you prepare the cylinder with Lori's easy to use fixture. The fixture fastens to the threaded portion of the cylinder body with two set screws and guides you in drilling two #29 pilot holes. (See photograph 5.)



5. The drilling/tapping fixture guides the #29 drill bit.

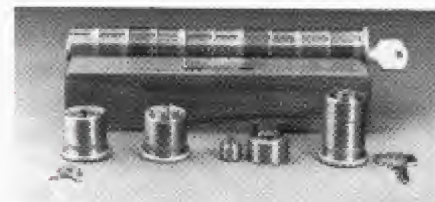
Loosen the set screws and rotate the fixture slightly so that the center hole in the fixture helps you guide the 8-32 tap.

Tap both of the holes you just drilled. (See photograph 6.)



6. An 8-32 tap prepares the cylinder for attachment of the extender.

The plug retainer goes on the end of the plug in place of the cam. The plug extender mates with the plug retainer and the shell extender is fastened in place with two machine screws into the holes you tapped. Now you have the cylinder in the keyway, finish and length you need. And you did it out of stock on the spot. (See photograph 7.)



7. The extenders can be stacked to accommodate different thicknesses.



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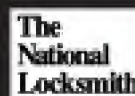
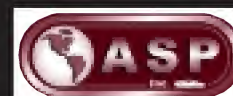
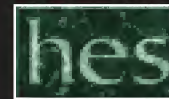
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The Cylinder Length Chart shows the various cylinders that can be made by adding any one of three extenders,  $\frac{3}{8}$ ",  $\frac{1}{2}$ ", and  $\frac{7}{8}$ " to a particular mortise cylinder. For instance, adding a  $\frac{3}{8}$ " extender to a  $1\frac{1}{8}$ " cylinder will give you a 2" mortise cylinder. (See chart 8.)

Cylinder Length Chart

original cylinder length	$\frac{3}{8}$ " ext. kit	$\frac{1}{2}$ " ext. kit	$\frac{7}{8}$ " ext. kit
$1\frac{5}{16}$ "	$1\frac{5}{16}$ "	$1\frac{7}{16}$ "	$1\frac{13}{16}$ "
1"	$1\frac{3}{8}$ "	$1\frac{1}{2}$ "	$1\frac{7}{8}$ "
$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	$1\frac{5}{8}$ "	2"
$1\frac{1}{4}$ "	$1\frac{5}{8}$ "	$1\frac{3}{4}$ "	$2\frac{1}{8}$ "

\*Note:  $1\frac{5}{16}$ " original cylinder is 5-pin only.

Chart 8

If a cylinder longer than  $2\frac{1}{8}$ " is required the extenders may be stacked. For example, two  $\frac{3}{8}$ " extenders may be added to a  $1\frac{1}{4}$ " cylinder to make a 3" mortise cylinder using longer screws to attach both extenders. If you participate in the Autograph Cylinder Program and choose to add the Extend-a-Cylinder option, you will find a handy storage space for the drilling/tapping fixture in the Autograph cylinder parts kit. Extenders are being readied for shipment this month.

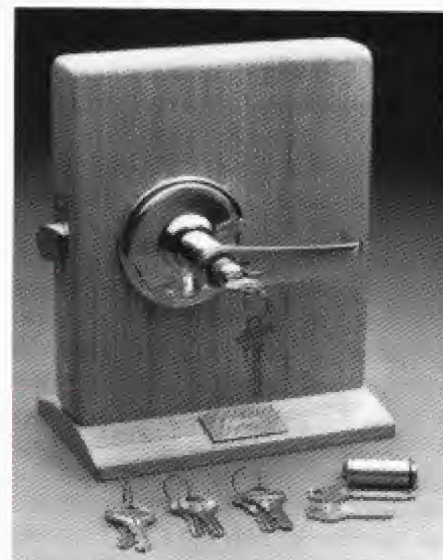
Kwikset introduced its 500WL UL

listed key-in-lever lock to keep pace with changing building codes, including handicapped specifications. Lori, has come out with a replacement cylinder. The 1505 will allow locksmiths to add the competitively priced 500WL to existing key systems.

The 1505 is a brass cylinder, drilled 6-pin, pinned 5. Like Kwikset's original cylinder, the 1505 is removed and installed with a control key made on a special long blank. The operating key turns right or left, only far enough to lock or unlock the leverset. The control key turns farther, allowing removal or replacement of the cylinder without taking the lockset off the door.

Lori's 1505 is being made in four popular keyways: Corbin 60, Russwin D1, Schlage C and Schlage P, which accepts Schlage sections C through L. The 1505 is available in US3, US5 and US26D. If the cylinder is single-keyed, either KA or KD, the control key is bitted to that particular combination. If the cylinder is part of a master key system, the control key may be bitted to the TMK or any other master key combination. When that is done, the control key should be guarded with the appropriate honors for the sake of security.

O-bitted is the standard keying for the 1505. Lori will furnish two O-bitted operating keys and one O-bitted control key. We believe O-bitted will give you the greatest flexibility. 1505 cylinders may also be ordered KA, KD or MK'd. (See photograph 9.)



9. The 1505 key-in-lever cylinder is available in several keyways. Note the long control key in the foreground.

For more information contact: Lori Lock, P.O. Box 490, Southington, CT 06489, (203) 621-3601. ■



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## Looking at Yugo

"Even though the Yugo is not tremendously popular, the car is out there and will be for some time to come, and locksmiths will have to deal with it."



Send your car opening questions to: Shirl Schamp, The National Locksmith, 1533 Burgundy Parkway, Streamwood, IL 60107.

by Shirl Schamp

Well, you have not been reading much written by me recently, probably because I haven't been writing very much. I went to the ALOA convention in Atlanta convinced that my writing was going to remain minimum if any, and then I looked our world over (the world of locksmithing) once again, and decided what a wonder-

ful bunch of people to be a part of. At ALOA I visited with the crew at the magazine, a perfectly grand gentleman locksmith from our neighboring country of Mexico, and an equally grand gentleman from Germany, and of course I must not overlook our family of locksmiths in the States. I decided I didn't want to get off the bandwagon after all, so I told my editor he should expect an article a month again. So let's start with a Yugo.

Even though the popularity of the Yugo is not a raging wildfire, the car is out there and will be for some time to come and locksmiths have to deal with it.

You may recall some of the original information provided on these cars and

feel that this will be a repeat. Well, read on and you might learn something new, and it can certainly help your newer employees, or the new locksmith in general.

*Don't stock* all the keys that you find are available through your locksmith suppliers. Some of these keys were stocked on their shelves before they were aware of what would be "street-wise" stocking of blanks. If you haven't purchased any yet, buy only these:

Taylor	Dominion	Curtis
F79-1	SF5	FT-37
F79-3	SF6	FT-38
X152		FT-46
X153		YU1
X167		YU2



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<b>Borkey</b>	<b>Silca</b>	<b>Ilco</b>
816	AF 7A	YU2
809	AF 7C	
1328K	14711299.6	
	YG 1R	
	GT5	

This stocking situation reminds me of when the Mazda came out in approximately 1970. One of my regular accounts was to become a dealership, so I immediately contacted all of the distributors I dealt with and requested a little bit of any and all the Mazda blanks they had; after all I had no idea what I needed. I received 10 each of 27 different kinds. As I grew to know and understand the Mazdas, I became aware that at that time 24 of the 27 weren't even sold in this country. The three that were used were only increased to five when the Ford Courier went to double-sided keys, and the Mazdas decreased their number in about 1974 when they went to one key for the whole car. All I'm trying to illustrate is if you are not careful you'll find yourself overstocked with useless inventory.

The following is some code information. To my knowledge we are only dealing with six different series:

<b>Code Series</b>	<b>Key Blanks</b>	<b>Micro Cards</b>
1501-1900	F79-1	XF91
3501-3900	F79-3	XF91
G3001-4530	X167	XF203
K7001-8092	FT46	XF96
S0501-3279	FT46	XF96
Z501-1000	X153	XF202

**Series:** 1501-1900, door key; 3501-3900, door key; G3001-4530, trunk/gas; Z501-1000, trunk/gas; K7001-8092, Ignition; S0501-3279, Ignition.

**Depth increments:**

**Series:** 1501-1900 & 3501-3900 progresses at .0315

K7001-8092 & S0501-3279 progresses at .0197

G3001-4530 progresses at .028

Z501-1000 progresses at .0295

**Depths:**

**Series:** 1501-1900 & 3501-3900

(1) .272

(2) .240

(3) .209

**Series:** K7001-8092 & S0501-3279

(1) or (0) = .290

(2) or (9) = .272

(3) or (8) = .252

(4) or (4) = .232

(5) or (6) = .213

**Series:** G3001-4530

(1) .299

(2) .272

(3) .244

(4) .217

**Series:** Z501-1000

(1) .291

(2) .262

(3) .232

**Spacing .110**

**Series:** 1501-1900 & 3501-3900

(1) .216

(2) .327

(3) .437

(4) .547

(5) .657

(6) .768

**Series:** K7001-8092 & S0501-3279

(1) .146

(2) .250

(3) .354

(4) .459

(5) .563

(6) .667



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**Series: G3001-4530**

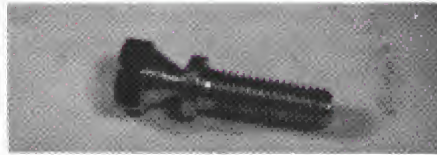
- (1) .220
- (2) .331
- (3) .441
- (4) .551
- (5) .661
- (6) .772

**Series: Z501-1000**

- (1) .228
- (2) .338
- (3) .449
- (4) .559
- (5) .669
- (6) .779

To remove the ignition from the column you must first remove the shroud and then remove the two shear bolts that hold the lock on the column, in order to back the shear bolts off. I suggest you simply use an icepick and a hammer. The bolt itself is a soft metal, so if you want to be totally righteous when you replace the lock onto the column you would use new bolts rather than the ones you've just peened. You will notice in photograph one they are designed to shear when enough torque has been applied.

After removing these bolts, unplug the wiring harness. (Remember, the harness is the only difference in the

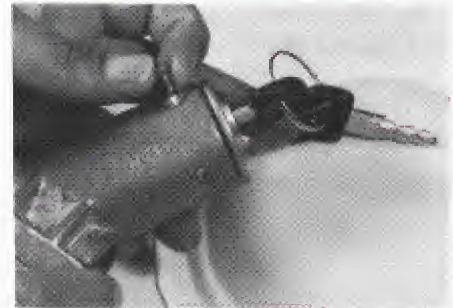


1. This bolt is designed to shear when a certain amount of torque has been applied.



2. The unplugged wiring harness.

newer models.) (See photograph 2.) Now you can take the lock to the workbench and disassemble it. A couple of things to remember are: (1) It uses a double-sided key. (2) It's a five pin tumbler lock even though the code series shows six; the tip cut is not used. (3) The insides are made primarily of plastic. On the side of the ignition housing you'll see a phillips screw. Remove it. (See photograph 3.) This won't release the cylinder, but the cylinder



3. Removing the screw from the ignition housing.

can't be removed without removing the screw.

At this point you either have to have a key or you must pick the lock to the on position, then you will be able to depress the retainer. The retainer is easy to find; about 90 degrees around from where you removed the screw (see photograph 4). The lock will then slide

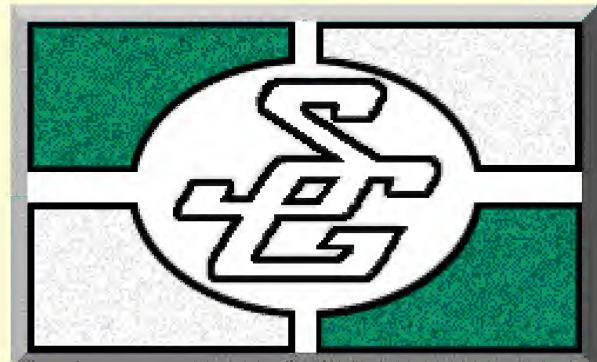


4. Depressing the retainer.

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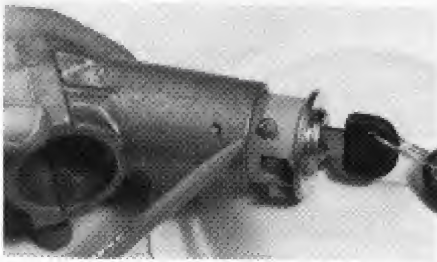


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out. You will notice in photograph five the retainer that I've been referring to. Another point of interest is the location of the pin tumblers in reference to the face of the lock. The pins come into the



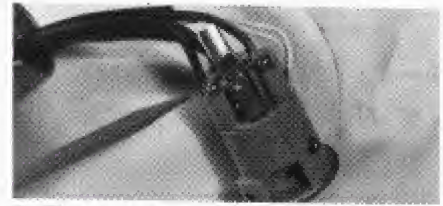
5. Retainer shown with cylinder removed.

keyway from what appears to be the wrong side; they are on the narrow side of the keyway. It looks like the bottom of the keyway (see photograph 6).



6. Note the location of the pin tumblers.

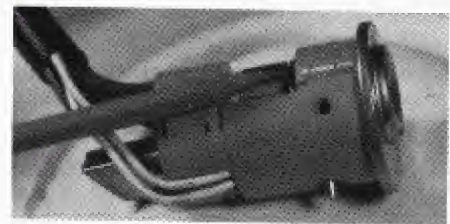
The first reaction you would naturally have would be to remove the two screws securing the wiring to the rear of the lock (see photograph 7). Well I've



7. These two screws hold the wiring to the rear of the lock.

gone that route and I think it creates more problems than it solves. Leave the screws alone and simply feed the wiring through far enough to allow a relaxed working situation. If you are going to remove the pins in order to rekey, repair, or to evaluate for making a key, then you don't have to disassemble any farther.

The retaining cap securing the pins and springs is accessible as seen in photograph eight.



8. Retaining cap is accessible here.

Remove the retainer keeping in mind that you will probably have to reuse it, so try not to damage more than absolutely necessary. Remove the pins, do your thing, return the pins to the chambers with the springs, replace the cap, and stake it. This is very important.

If you have been in the industry for any length of time you are familiar with the ever common problem of the exploding cap. If you are new to locksmithing, then take my word for it: the single greatest cause of lock malfunctioning is the retaining cap coming loose on one or both ends and causing jamming of pins or, in the case where the retainer rotates with the plug, jamming of rotation. This could have been avoided in almost all of these cases if some technician either in the factory or the aftermarket had just done a proper job of staking. Reverse the order of things and replace the unit onto the column.

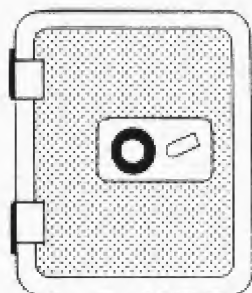
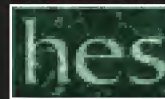
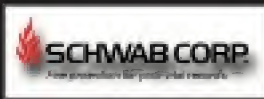
*Handy hint:* take a tray and line the bottom with an old magnetic sign you might have laying around and use it to put your parts on as you disassemble anything. It won't help with the brass parts but it sure will keep track of the rest of them. ■



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# Information

## Safe

In this section you will find a number of products by various safe manufacturers. As a locksmith, you offer security of many kinds to your customers. Many of you already handle safes; some of you do not. However, almost all of you do know that selling safes can be a profitable experience for a locksmith company. First there is the profit on the original sale. Then there is the follow-up service you can offer. Calls such as combination changing can really help pay the rent.

In this product review section we have tried to bring together a representative sampling

of the safes that are offered to the trade. Of course, it is impossible to have every manufacturer represented here. But we have tried to assemble a good sampling of material for you to examine.

If you feel you need more information about any of the items presented here, please use the Rapid Reply Card to request literature. You will find the reply card between pages 108 and 109 of this issue. If you do not currently handle safes, give it some thought. You might be overlooking a product line that could add to your bottom line. MG

### Aanon Introduces Safetron™ System

Aanon is now expanding its Safetron electronic system to its Courier™ line of depository safes.

The major sales feature is that the combination is easy to change and an override code registered at the factory is available to the locksmith if the combination is lost.

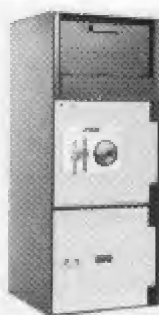
The interchangeable 3-bolt door is 1/2" thick, has Aanon's standard boltworks with 1/4" x 6 1/2" x 7" R<sub>C</sub> 60 drill resistant hardplate and a relocker. All moving parts in the boltworks are plated for long, maintenance-free, life.



### Amsec Adds To Safe Line

Amsec has recently introduced several new products. Their engineers have developed a U.L. approved composite body and door to offer burglary and fire protection all in one safe. The body matched with the new composite door design makes it a very versatile and affordable TL-30, and it comes in a variety of sizes.

Amsec's new series of depository safes are designed to provide immediate deposits and secure storage for cash, jewelry, and miscellaneous valuables.



### Bonafide Offers Perma-Vault

The Perma-Vault rotary depositor hopper safe with anti-fish baffle, makes an affordable safe and convenient depository for interim storage of cash, checks, and receipts.

Made of heavy gauge steel construction, Perma-Vault features four pre-drilled anchor bolt holes on the bottom for bolting and mounting, class B rate type construction and a large door opening.

Four models are available with either an S&G UL combination lock or an S&G dual custody safe deposit lock.



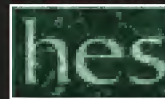
### Cannon's New Gun Safe

Cannon Safe, Inc. introduces Model 14R corner gun safe designed to fit any corner offering maximum storage for rifles yet utilizing less floor space than conventional gun safes.

The corner safe offers the traditional black paint, pinstripping, and eagle standard on all other gun safes. 1" chrome round bolts add additional security and enhance the beauty of the safe.



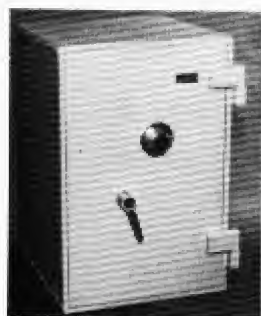




### Dayton Safe Expands Line

Dayton Safe Company, manufacturer of cash handling safes, has added a new model to their line. The #D2818B, C-rated for burglary features A514 steel (T1-100,000 PSI tensile strength) throughout — equivalent to 1" mild steel. It also has three 1" tool steel operating bolts, hardplate and a Group 2 lock.

The height of the unit is the same as a two-drawer file cabinet, and may serve as one pedestal in conjunction with a file cabinet for a desk top.



### Detroit Mini's Deposit Safe

Deposit safes from Detroit Mini Safe Co., discourage holdups on delivery trucks at retail stores, theatres, and other businesses that make collections.

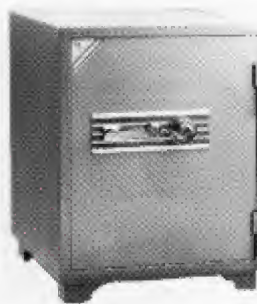
All welded steel, construction mini-safes permanently mount to the floor. Sizes available are 4" x 8" x 10" and 6" x 10" x 12". Warning signs are also included.



### Fichet's Diplomat Fire Safes

Fichet-Bauché North America offers the Diplomat line of economical, two-hour rated fire safes. The Diplomat safes have passed several rigorous fire tests, including a two-hour test. During another test, paper documents, a camera and other items remained undamaged when a Diplomat safe was heated in a furnace for over 90 minutes to temperatures of 1800° F.

The body and door of the Diplomats contain a thick layer of Styronite, a special fire-resisting material.



### Fort Knox Protector Series

These units, now available with concealed hinges, make up the least expensive line of Fort Knox vaults.

The rack and pinion gear drive locking mechanism provides a tight lockup with a Sargent & Greenleaf lock featuring relocker and optional key locking dial. The fully adjustable ball bearing hinge and 5/8" locking bolts provide high security against even the most sophisticated burglars.



## ASP Covers the World of Auto Locks

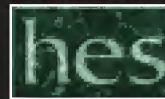
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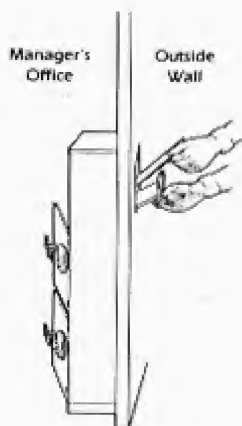




### Gardall's Back Load Depository

Gardall Safe Corporation has introduced a new line of back loading depository safes. The new models are manufactured with a "B" insurance rating and can be purchased with either a single or double door, using dual key or Group II combination locks.

The depository is located on the outside wall and the safe doors are located in the manager's office.



### Hayman Presents Handgun Safe

Hayman Safe Company announced the production and availability of its handgun safe. Because of its concern for the tragic loss of life and critical injuries to children caused by handguns, Hayman has accelerated production of its new handgun safe.

The safe is of 1/4" steel construction with a padded bottom and a removable padded shelf. It has multiple gun capacity, accepts one or two #1 padlocks and has provided mounting holes. The unit measures 8" x 10" x 12".



### Hydrosorbent's Silca Gel

Silca gel dehumidifiers from Hydrosorbent Products prevent condensation and stop rust, mildew, spoilage within safes.

Silca gel crystals drink up dampness to create a protective shield of dry air within any enclosed area. It needs no electricity and remains dry to the touch, even when saturated. A built-in indicator turns from blue to pink to signal the need for reactivation. It reactivates easily in any oven.



### Keystone Presents The Viking

Keystone Safe & Equipment Wholesalers presents the Keystone "Viking" fire and burglary resistant safe. These safes are composite style safes available with either composite doors or half inch plate doors.

Keystone's extensive inventory stocks eleven sizes of these safes. Interiors are supplied as a standard option. All safes are equipped with either S&G or LaGard key change combination locks and most sizes are also equipped with a key lock.



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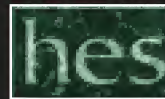
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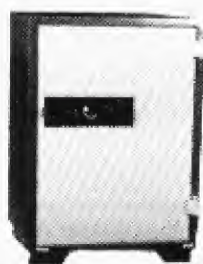
[www.laserkey.com](http://www.laserkey.com)





### M.D. Kramer Expands Line

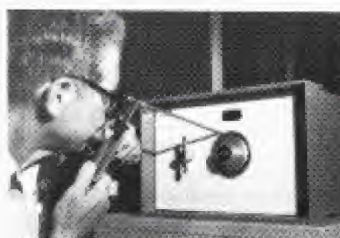
M.D. Kramer locksmith supplies has expanded their line of imported quality safes. They feature small and large, fire-resistant record safes, rotary hopper safes single-door, double-door, and slotted with a pull handle. Also available are a front slotted double-door, under counter slotted single-door and three models of wall safes. All of the safes, with the exception of the small record safes, are equipped with S&G locks.



### MDS Expands Focusscope Line

MDS, Incorporated has expanded their universal Focusscope™ Borescope line to include over 50 accessories. Now more than 5000 locksmith/safeman users may choose to expand their modular system.

For an updated accessory list on this and other diagnostic products for the locksmith/safeman, contact MDS, Incorporated.



### Midwest Safe Opens In Chicago

Midwest Safe Distributors, Inc. announces the opening of its warehouse and sales offices in Chicago, Illinois.

Midwest Safe is a direct importer and has an extensive inventory of the Diplomat fire safe line. The single and double door models range from .72 to 22.38 cubic feet of capacity. They have been tested and approved at 1800°F by the National Swedish Institute for Materials Testing.

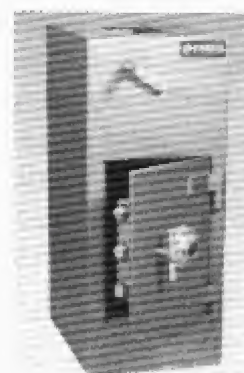
A key and combination lock are standard on all models.

### Depository Safes By MKI Industries

The Cronus safe by MKI Industries allows valuables to be deposited at any time and be protected until the safe is opened.

Standard features include: 1/2" thick steel door, 1/4" steel body, three locking bolts, a welded deadbar and interchangeable doors.

Optional features include a U.L. listed dual key lock and a U.L. group 2 key change combination lock.



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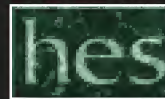
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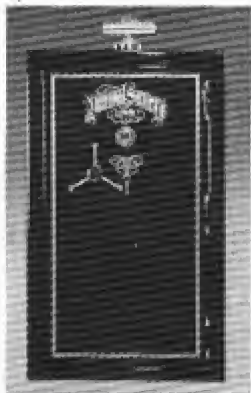




### National Security's Magnum Safe

The Magnum incorporates all National Security Safe's standard features plus many options not available in other models. It has 19 locking bolts, 7 on each side, 3 on top, and 2 on the bottom.

The model shown here has the black exterior, silver 21-gun combination interior and the following options: gold plating on the handle and lock dial, brass hinge caps, custom handle, and brass safe lamp.



### New Olympus Light Source

A new light source designed specifically for inspections with the Olympus Videoimagescope has been announced by Olympus Corporation. The Model ILX-6300 light source has a 300-watt xenon short arc discharge lamp, stated to be four times more powerful than a 150-watt incandescent lamp. This high intensity is ideal for the CCD chip camera used in the Olympus.

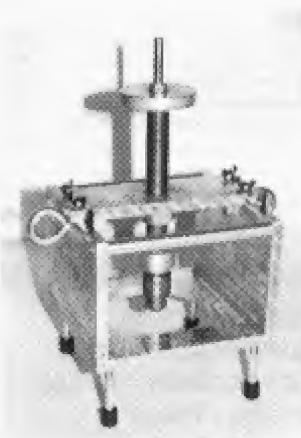
Videoimagescope is a flexible, remote video inspection device capable of being inserted in pipes and equipment as far as 70 feet and more.



### The Penetrator From Lew F. Noyes

The Penetrator safe drill rig which has been invented, designed, and manufactured by Lew and Eleanor Noyes can penetrate hardplates of the most sophisticated safes.

Primarily designed for the government G.S.A. containers, the Penetrator is now being used on all types of safes in all parts of the world.



### Precision Product's Time Locks

Two and three movement mechanical time locks, electronic time locks and safe locks are now available from Precision Products. The two and three movement mechanical time locks retrofit most existing mounting configurations, and feature Swiss-made, Relhor time movements.

The Precision Regulus is an electro-mechanical combination lock for safes, with a built-in time lock and time delay. The Precision Misal 40 is an electronic time lock that features a multitude of options.



# Major

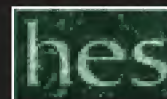
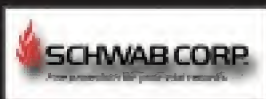
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### RJB Products' Safe-T-Vent

Safe-T-Vent from RJB Products, Inc., is a home and office "hiding place" which protects your valuables from thieves because of its design and by virtue of the vent's common presence in every home.

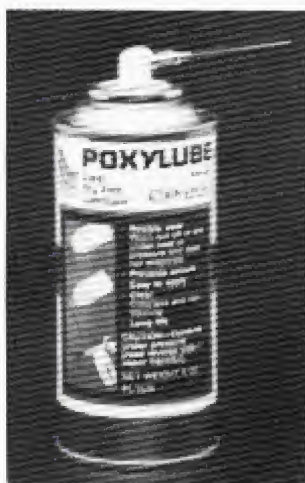
The large storage area (11" x 5" x 3") will hold multiple or bulky items easily, and is simple to install. You can store and retrieve items quickly with velcro mounting.

This perfect "secret hideaway" can keep children away from important papers or valuable property.



### Poxylube CP-200 Lubricates

Poxylube CP-200 provides lubrication through the use of PTFE technology—contains no graphite. It will not gum up tumblers in safe locks. Poxylube is colorless, dries fast, and will not run off. It's also clean and will not cause rust. The lubricant comes in an easy-to-apply aerosol can or is available in bulk.



### S & G's Spyproof Dial

The Sargent & Greenleaf front reading dust cover offers Spyproof™ security. The unique, ribbed plastic lens reduces vision allowing only the person opening the container to view the numbers at the index. The combination can be dialed frequently, without risking security, even in high traffic areas.

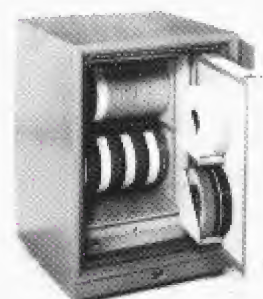
The Dust Cover, designed to remain permanent, is tamper-resistant, and cannot be removed after installation without force.



### Schwab's New FireGuard Safes

Schwab's FireGuard Media Safes protect invaluable information stored on all forms of EDP Media from fire loss and humidity damage. Each safe offers a customized, factory installed interior to meet each user's individual storage needs.

The safes are manufactured in the USA, and carry US-UL certification of their effectiveness. Schwab also backs these safes with a \$100,000 Covered-Contents warranty.



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### Sentry Adds New Safe Line

In an effort to give locksmiths a competitive selling edge over mass merchandisers, Sentry Group has introduced the Professional Quality™ line of fire safes, chests, and files.

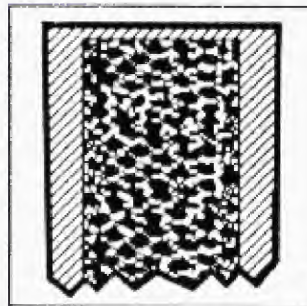
The new Sentry™ Professional Quality Fire Safe line replaces the Sentry Supreme brand name and offers the locksmith customer additional benefits. The Professional Quality line is available in a new dove grey color and comes with bolt-down hardware.



### Shwayder MaxAlloy Reamer Pins

A new security product is available from the Shwayder Co. MaxAlloy reamer pins fill and secure the drill holes in safes you have drilled open. Simply drive a MaxAlloy pin into the hole and weld in place.

The pin is composed of the same drill and punch-proof carbide composite material that is used in their MaxAlloy Security Plates.



### Uscan Adds To Safe Line

Uscan Lock Distribution announces a new addition to their safe line. The new model is designated UC1717.

The safe features interior dimensions of 16.9" x 16.9" x 16.9". This size makes the UC1717 well suited for the temporary storage of cash register drawers. The unit weighs 220 lbs. It is fitted with a dual guard key lock and a four tumbler combination lock. All Uscan safes feature Styronite insulation and airtight construction.

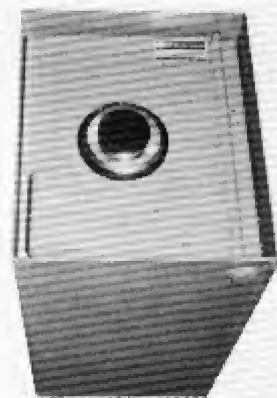


### U.S. SecuritySafe's Thrifty Safe

U.S. SecuritySafe offers inexpensive protection with their new Thrifty Safe model 6000.

Made of high tensile solid steel combined with up-to-date combination lock technology and dual re-locking devices will help deter burglary attacks.

The Thrifty Safe has a clear door opening of 9½" x 9¾" with extra depth and 1300 cubic inch capacity.



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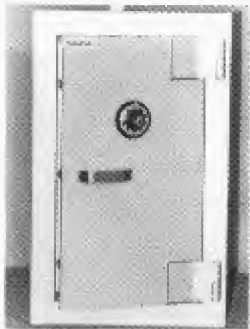
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### Wilson Safe Imports Directly

Wilson/Diplomat Safe is a direct importer of Diplomat fire safes and Reliance fire/burglary rated safes and Reliance fire/burglary rated safes for use in homes, office and protection of guns. Moreover, Wilson's large inventory includes Amsec-Star's full line of floor, chest, gun and depository safes, U.S. Security line of top and front load hopppers, Aanon wall and B-rate digital locking safes, and original and Fichet-Bauche High Security safes.



### Amsec Now Markets SmartGard

Amsec announces its exclusive marketing agreement for SmartGard, a safe access control system which has been in development for three years. The system incorporates such features as time delay, time lock, multiple user codes and full audit trail capability. It is powered by a 9 VDL power supply with a lithium battery backup. The unit is available now on Amsec safes.

Also, added to the current line of Amsec high security gun safes is the new competitively priced 450 lb. RL6025 gun safe.



### Cannon's New Product Division

Cannon Safe Inc. announces Cannon Security, a new division of Cannon Safe. Cannon Security will feature a new line of steel safes, 100% manufactured in the USA, with a lifetime guarantee, one year on the lock.

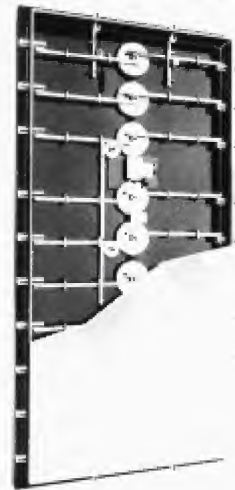
Cannon Security's new line of commercial and home steel safes will offer floor safes, rotary safes, wall safes, depository, both front and rear loading depositories, B and C rated chests, and commercial chests.



### Fort Knox's Yeager Edition

This Fort Knox vault is constructed with high-strength steel, concealed hinges, and extra heavy reinforced door. Fort has added their ceramic fire protection package, using materials capable of withstanding 2400°F.

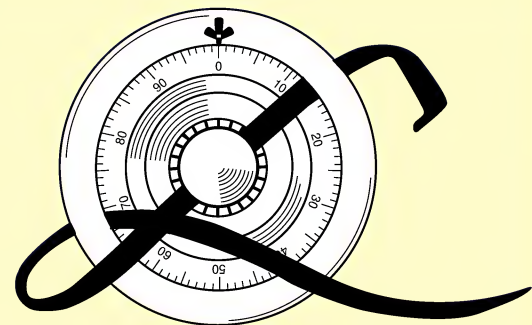
The Yeager Executive Edition also houses a sophisticated locking system of up to 32 solid gears



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### Record Safe From Gardall

Gardall Safe Corporation has released a new fire resistant record safe called the Model 171718. This safe is constructed like their other record safes with a 2 1/4" wall and carries the Underwriters Laboratory 350° one hour label.

The 171718 has room for most ledger or accounting records and cash register drawers, it also satisfies more homeowners' requirements for extra security. The standard interior includes two adjustable shelves.



### The Protector From Keystone

Keystone Safe & Equipment Wholesalers offers the "Protector" fire-resistant safe, rated one and two hour "JIS Standard."

The Protector equipped with both key and combination locks, is available in twelve sizes to fit every need both in the office and home. An attractive finish blends with any decor.

Every safe is equipped with a standard interior. Additional interiors, touch up paint and replacement parts are available. Custom interiors and layouts are provided on request.



### LSDA Rotary Hopper Safe

LSDA, Rotary and slot depository safes are designed to provide immediate deposits and secure storage.

Available in a single or double door model with a three wheel, key change combination lock and/or door drilled and tapped for an S&G model 440RH key lock (order separately).

LSDA safes guard against pilferage and fishing.



### MKI Industries' Digital Safe

MKI Industries' integrated circuit combination locking is available on their safes. These I.C. locking safes have a knob (handle) and the combination is easily changed by the user.

Battery life is approximately one year under normal usage and the power supply is DC 6 volt. It also features combination memory which does not erase if power is interrupted and provides 1,000,000 different possible combinations. An alarm device will sound automatically after three false tries to punch in your number.

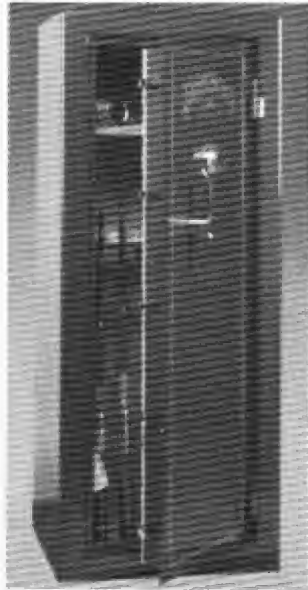






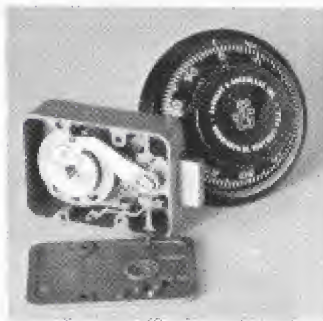
### National Security's Mini-Mag Plus

This National Security Safe unit is an economical safe that features the narrow width of the Mini-Mag with H-700 construction and five one-inch diameter locking bolts on each side. It is also slightly deeper than the Mini-Mag for more storage space.



### S & G's Two-Year Warranty

The 6700 series, Group 2 combination lock, or "R-Lock" as it is commonly referred to, has been an industry standard since 1925. The quality and long life built into each lock are the foundation for the two year warranty program recently introduced by S&G. The warranty covers materials and workmanship for a period of two years from the date of manufacture.



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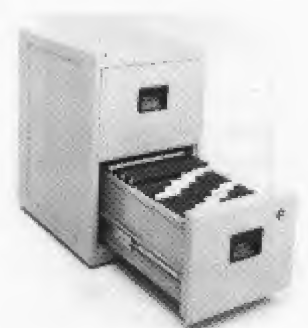
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### Sentry® Offers Office File

A highly protective office file designed to safeguard important records and documents from fire is available from Sentry Group. The Sentry Fire-Safe office file, Model 6000, offers U.L. rated fire protection for one hour up to 1700 °F.

Weighing 170 pounds, Sentry's two-drawer file features a patented seamless construction, and smooth, quiet, and rugged Accuride™ drawer slides. A dual latching system ensures that the file will stay closed in the event of a fire.



### Schwayder's MaxAlloy Plates

The MaxAlloy security plates are drill, punch, x-ray and torch-proof hardplate from Shwayder, and are now available directly to locksmiths to repair and upgrade safes, vaults and cabinets.

MaxAlloy is a patented composite drill-resistant alloy consisting of a blend of hard carbide particles bonded into a high strength, impact and heat absorbing bronze matrix and surrounded with a steel skin. MaxAlloy is easily welded inside the safe door and available for TL-15, TL-30, TL-60 and GSA containers.



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# Antique Combination Lock

"The lock dates back to 1865. It has a 200 number dial with four wheels, offering 1.6 billion combinations. This lock was way ahead of its time."

by Tom Hennessey

The author is the curator of the Lock Museum of America located in Terryville, CT. Mr. Hennessey is recognized as a leading authority on antique locks.

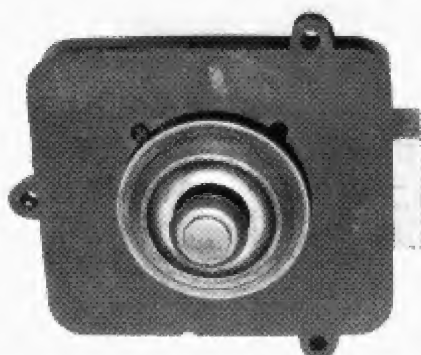
Recently, Connie Maffey, a locksmith in Newark, NJ, gave a very unusual safe and vault lock to the Lock Museum of America on loan. This lock was manufactured in New Haven, CT by William Bacon about 1865. Also stamped on the wheel cover is "Cover's Patents 1857-1858." (See photograph 1.) The lock has a 200 number dial with four wheels offering 1.6 billion combinations. (See photographs 2 and 3.)

After checking Henry W. Covert's patent #18,228 of September 15, 1857, I could see very little correlation to this particular lock. I then checked his pat-

ent #21,655 of October 5, 1858 which has a friction cam for throwing the bolt. The dial spindle is a tapered steel shaft which, when you pull out the dial, engages a mating bronze bushing with a cam and by friction the dial, when rotated will extend or retract the bolt. This invention eliminated the possibility of applying a wrench to the dial with the wheels not lined up and breaking the bolt drive mechanism, which would prevent opening the safe or vault.

This lock, made by William Bacon, had several other manipulation features not shown in Henry Covert's patents. After some searching of patents I found the patent which covered the manipulation-proof features of this lock. (See photographs 4 and 5.) They were invented by John Connell of Rochester, NY (Pat. 38,858 of June 9, 1863.) This patent was assigned to Martin Briggs, the owner of the M. Briggs Mfg. Co. in Rochester. Mr. Connell mentions the two patents of Henry Covert in 1857 and 1858 which are incorporated in this lock and states in his patent that his invention is intended as improvements to Henry Covert's devices.

Mr. Connell added a gravity operated bronze slide with projections which deadlock the bolt and incorporated a fence with a roller attached. By pushing in the dial it engaged the wheels and raised the fence above the wheels. Thus, when dialing the combination nothing touched the wheels. This eliminated any possibility of manipulating this lock by feel or sound. When the wheels are lined up by dialing the proper combination, you pull back the dial and disengage the wheels. This allows the roller to move down the cone-shaped spindle which is completely round with no opening position and lower the fence into the gates. It also moves the gravity operated slide down with its deadlocking lugs, which then allows the bolt to be retracted. ■



3. Four wheel pack with hand change with 200 perfectly matching teeth.



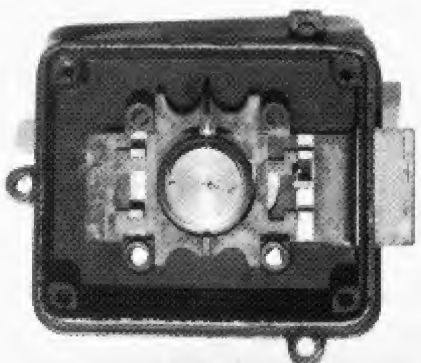
4. View showing inside of lock.



1. Bronze cover of front wheel pack.



2. Pull out 200 number dial and ring assembled with lock.



5. Back view of lock with knurled knob to remove wheel pack.





## Buddy Product's Wall Safe

"This product can actually be easier to install than a deadbolt. We ran into a few problems, but the total job was very easy, something the average customer could do."

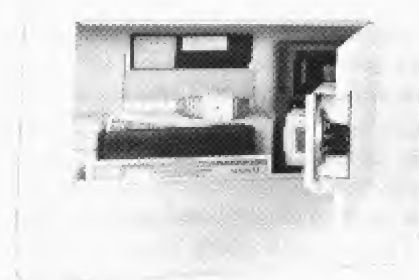


by Dale Libby

**B**uddy Products has introduced a low cost wall safe that is easy to install by you the locksmith or by the customer himself or herself. I was recently given a sample safe to install and evaluate, and this article is the result of that installation. (See photograph 1.)

Enter our heroine, Jane Craig. This lovely lady is (one of) my girlfriend(s). I convinced her that she needed a wall safe and that she could install it herself, with a little help from me. She did install the safe and it was easy. Total time for the installation was about 30 minutes, with another 15 minutes clean-up time. Less than an hour of time was used for the complete installation.

Upon reflecting on the safe installation, it is actually easier than installing a deadbolt lock, either mortise or rim type. The problems that one can run into are manifold, but the actual work is easier, at least in drywall installations. We ran into a few problems, which I will discuss, but the total instal-



1. The Buddy Products wall safe.

lation was very easy, something a customer could do very easily. This was due to in large part to the easy-to-follow instructions and pictures which accompanied the safe. Part of the box is the actual template, with all the directions printed on the template. On to the installation.

The first decision to be made is where to install the wall safe. (Model #3100 for the number purists.) Several places can be used. The first and most obvious is behind a mirror or picture. Other places include inside closets, inside cabinets, in the garage, or even behind your bed or couch.

The biggest security factor in the wall safe is the secrecy of its location. We are not talking about a rated safe or chest here, but a well-made sheet metal strong box with a combination lock. Jane decided that in her clothes closet

would be the best out of sight location for the Buddy unit.

After selecting a location, the next step is to locate the 2" x 4" studs in the wall. The safe instructions say to use a nail which Jane did, and I checked her results with a "StudFinder." A Stud-Finder is an inexpensive piece of equipment that can be found in any builders' store. It does not need nails to locate studs like old magnetic studfinders did. It works well and is easy to use. If you plan to install safes like these, it would be important for you to purchase one of these tools. On sale, they range from \$10-\$20.

You can use a nail to find the edge of the studs. Once the edge of the stud is determined, the instruction template which measures 14 3/8" by 9 1/8" is taped to the wall, and the outline is marked. One edge of the template must be flush with the edge of the stud as you have determined, and this will give you the precise measurement. This template is part of the box that the buddy safe comes in, and must be cut out before installation. All the directions are on this template. Neat!

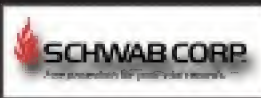
The Buddy safe is 14 3/8" wide. 14 1/2" is the distance between 16" on center wall studs. Photograph two shows Jane with the cutout of wallboard. Wait, what is that in the hole. It is a type of electrical cable called "BX." Do not



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2. Jane with drywall cutout showing the concealed BX in the wall.

worry, for there is enough room to flush mount the safe and still have room for the cable behind it. This is due to the thickness of the drywall which adds  $\frac{5}{8}$ " to the depth of the unit. The safe is approximately  $3\frac{1}{2}$ " deep. No problems here.

If the wall studs are closer than  $14\frac{3}{8}$ " then some chiseling must be done on the stud itself. The hole can either be cut out with a small hand saw or a saber saw. We elected to use a saber saw. This was the messy part of the job. Jane is a neat person so this was the part of the job that she hated the most. She enjoyed the vacuuming to clean up the dust and small pieces of drywall.

Photograph three shows Jane with the completed installation. To finish



3. Safe installed with combination label on the front. Label can be easily removed.

the job, four large lag screws (short) are used, to a side. It is easy to install these hex-headed screws with a  $7/16$ " socket and short extension. These are screwed right into the studs. If wanted, the safe can be installed on a wall. The directions suggest that you can drill holes in the back of the unit and surface mount it. It is much more secure to flush mount the unit between studs and conceal it.

Once the unit is installed, all that is left is to conceal it from prying eyes. Jane rehung the clothes, and the safe was out of sight and secure.

The combination lock on the unit is a

Master Lock, similar to those used on locker locks. Although the literature explains that the lock uses a three number combination, it uses only two numbers.

The directions for our combination said:

Turn 3 or more times right to 22

Turn 2 times left to 10

Turn 1 time back to 48

Continue past 48 until the dial stops, and open.

The real way this combination should be written is:

Turn 3 times right to 22

Turn 2 times left to 10

Turn right until the dial stops, and open.

The inclusion of the #48 in the top combination is superfluous, for it could have been any number between 10 (down to) and 42 (the actual 'stop' number).

In conclusion, although the wall safe is well made, it is not intended for high security applications. However, it falls into an attractive price range for a product of this type.

The unit will sell, for it is well-made and engineered, and is a good price. The homeowners will really like it. ■

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# Precision Products

"The company currently produces about 80 percent of the safe deposit locks used in North America today. At this time, a variety of new products have been released."

In June, Precision Products, Inc., celebrated thirteen years of operation by announcing plans to produce several new product lines. The Lexington, Kentucky based company currently manufactures safe deposit locks, numbering and hinging systems, key blanks, and key machines. These and all new products will now be sold direct to manufacturers and distributors.

While Precision Products may not be a household name yet, its founder and C.E.O., Jim Taylor, has been a prominent member of the security industry for over 40 years. His career began in 1948 with an apprenticeship at Safemasters in Washington, D.C. He continued with Safemasters until 1951, when he joined the U.S. Department of Defense as Chief of the Lock and Safe Department, in the Physical Security Equipment Agency. In 1953 Taylor went to work in the research department, at Sargent & Greenleaf, Inc., in Rochester, New York.

Together with Harry Miller and Leonard Singer, Taylor founded the Lockmasters Correspondence School in 1955, while continuing his work at Sargent & Greenleaf. Today the Lockmasters School boasts over 30,000 graduates, and still uses many of the materials developed by Taylor. He was appointed Executive Vice President/General Manager of S&G in 1968, a position he held until he left the company at the end of 1974.

Shortly after Precision Products was established in 1976, the company designed and began producing safe deposit locks for the LeFebvre Corporation in Cedar Rapids, Iowa. In the early 1980's Precision Products assisted with the development of Diebold's double-changeable safe deposit lock, and shortly thereafter began manufacturing a double-changeable safe deposit lock for the independent market.

The 5400 series, a double-nose, non-handed changeable lock, was a welcome addition to the marketplace, particu-

larly in the area of matchwork. (See photograph 1.) Precision had developed a unique method of matching virtually any guard key with a small diameter nose lock including Mosler keys. Precision Products further expanded its line of proprietary products with a complete line of die cast hinging, and numbering systems.

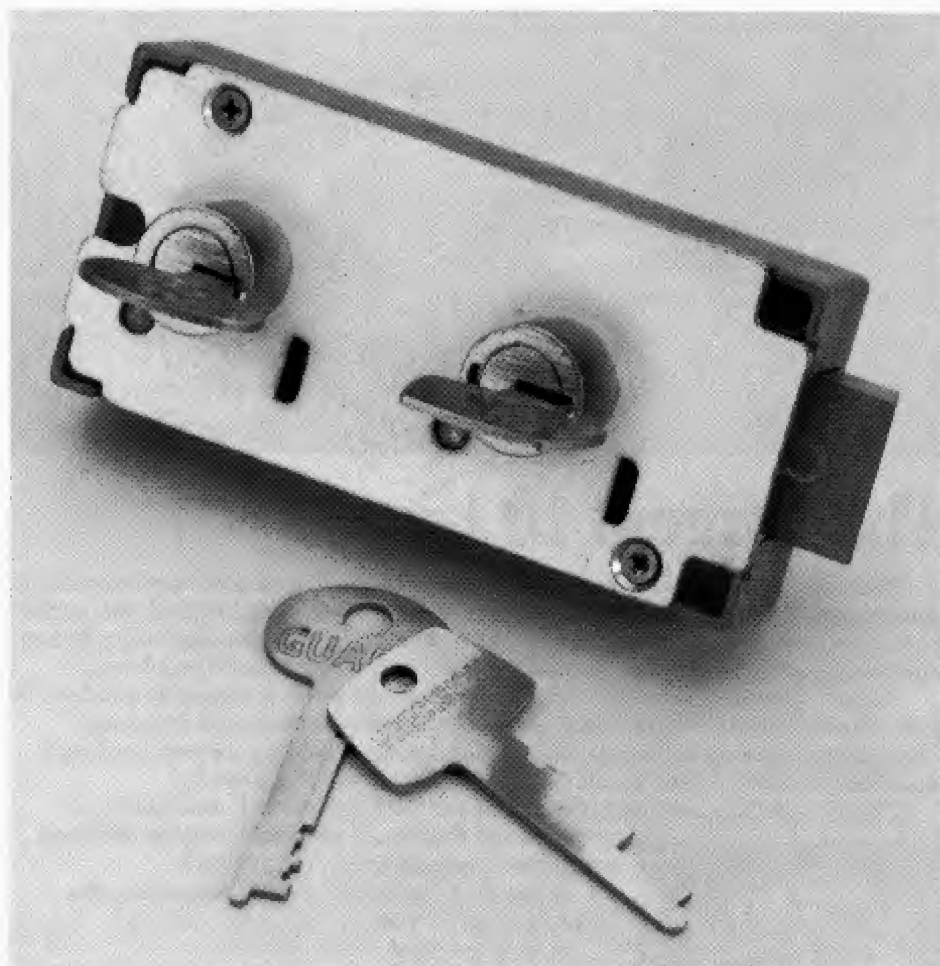
In 1985, the firm contracted with Sargent & Greenleaf to produce their safe deposit locks, and sell safe deposit products exclusively through S&G. The S&G model 4500 safe deposit lock was replaced by the Precision Products 5400 series.

Precision currently produces 80 per-

cent of all the safe deposit locks used in North America today. After making the decision to begin selling safe deposit locks directly to the original equipment manufacturers and distributors through a newly established sales force, further expansion was planned.

New safe deposit products include the P40 series, a double-nose, fixed lever safe deposit lock designed to retrofit the S&G 4440 series. The P40 features 11 one-piece brass levers; precision die cast case, bolt, and cover; and is available in brass or nickel finish.

A replacement for the Mosler 5700/3175 series is currently being manu-



1. The P5400 is a double-nose, nonhanded changeable lock.



factured, along with the Yale B200 and B300 safe deposit locks, which are sold through Lockmasters. All safe deposit locks are available with new guard keys, or matched to virtually any guard key in existence.

Precision Products recently purchased tooling for Group 2, three and four wheel combination locks. The P67 series features two-piece metal wheels, riveted in the conventional manner. The bolt, drop lever, lever screw, and relocking device are machined brass. The tooling for the case and cover has been modified to meet quality standards set by Precision Products.

The wheel post, previously part of the cover, has been relocated to the lock case, to ensure accuracy for an extended period of use. All moving parts are teflon coated for lifetime lubrication. The mounting hole configuration and most parts are designed to interchange with many group 2 combination locks currently in use. Front and top-reading dials and rings are available in 2½" and 3" sizes.

Two and three movement mechanical time locks, electronic time lock and safe locks are also available at Precision Products. (See photograph 2.) The two

and three movement mechanical time locks retrofit most existing mounting



2. The Precision Regulus is an electronic safe lock with a variety of program features.



3. The Precision two-movement time lock features Swiss time movements, manufactured by Relhor.

configurations, and feature Swiss-made, Relhor time movements. The Precision Regulus is an electromechanical combination lock for safes, with a built-in time lock and time delay.

The Precision Misal 40 is an electronic time lock that features a multitude of options including daily and weekly programs, a built-in time delay, multiple security codes, an inside emergency release, and a perpetual calendar to compensate for time changes, vacations, holidays, etc. (See photograph 3.) The Precision Misal 40 is motor driven, and can be programmed years in advance.

The primary advantage offered by both electronic locks is simplicity of programming and day-to-day operation. Widely used throughout Europe, electronic locks are gaining acceptance in the United States.

Precision Products, with its newly restructured and expanded facilities, is becoming a significant supplier of cost effective and "precision" products to the rapidly growing security market.

For more information contact: Precision Products, 525 DeRoode St., Lexington, KY 40508, (800) 678-9KEY.



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## Business Briefs

### Silea Key Announces New U.S. Address

Silea Key Services, Inc. has announced a new, updated U.S. address for their company. The location is 9049 Dutton Rd., Twinsburg, OH 44087, (216) 487-5454, FAX (216) 487-5459. All correspondence and inquiries should be addressed to the above office.

Personnel is as follows: Dave Powell, General Manager; Barney Goldberg, V.P. of Sales; Ezio Chies, Technical Director.

The company manufactures key blanks and key machines. Their product line is distributed through the wholesaler/distributor network. Shipping of product has now commenced.

### ALOA Introduces Mathisen As Executive Director

A tiger may be the best description of ALOA's new executive director, William R. Mathisen, who assumed his duties on May 30, 1989.

When asked, what's the purpose of a trade association, Mathisen always answers, "to make its members more

successful." This is the philosophy Mathisen brings to the Associated Locksmiths of America, Inc. He should know, because his experience includes 10 years as the operator of his own small building business before his association with the National Kitchen & Bath Association (NKBA).

As the former director of membership/marketing for NKBA, he brings with him a wide range of expertise and an extensive list of successful leadership traits.

Before joining NKBA, Mathisen was a custom home builder and operated a kitchen and bath showroom in Houston for 10 years. Previous to that, he was at NASA's Manned Space Center in Houston for 10 years, serving as director of training for computer operation in support of Mission Control. He also performed the duties of schedule controller for Sky Lab 1 and 2.



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## HPC Announces Expanded Sales Force

HPC has expanded their sales organization in four major regions. The sales organization and area that is covered is Roy and Associates, Posco Building, 45 Granite Street, Leominster, MA 01453 for New England; John Bockert and Associates, 933 State Route 61, Norwalk, OH 44857 for Ohio, W. Pennsylvania, West Virginia, Kentucky and Indiana; Dave Bryant, NSSC Locks, Inc. 2559 Algonkin Trail, Manasquan, NJ 08736 for New York and New Jersey and Clark and Shuck Associates, Inc., 11311 Harry Hines, Suite 602, Dallas, TX 75229, for Texas, Oklahoma, Arkansas, Louisiana and Mississippi.

## American Lock & Supply Announces Promotions

Stu Maijala, whose leadership in just three years took American Lock & Supply's start-up Seattle warehouse to its No. 2 volume "satellite" branch in 1988, was promoted to Branch Manager of AmLock's new Chicago facility.



A Tacoma, WA native, the 44-year-old Maijala worked 21 years for Weyerhaeuser. He spent most of his career in the Tacoma-based lumber and paper products conglomerate's sales and distribution division, managing several branches located throughout the U.S. He joined AmLock to run its first Northwest branch in 1986. Last year the Seattle warehouse had a 49% sales increase.

Teaming with Maijala from the Seattle facility's beginning was Jim Negri, Assistant Branch Manager. Upon Maijala's promotion announcement, Negri was immediately named as his successor.

## Medeco Announces ALOA Drawing Winners

Medeco announces three locksmith winners, of drawings that were made at the 1989 ALOA Convention in Atlanta, Georgia, by representatives from three locksmith magazines.

Debbie Campbell from the ALOA/Keynotes organization drew the grand prize winner, Mr. Bill McElheney, owner of McElheney Locksmiths in Toledo, Ohio. As the Grand Prize winner, Mr. McElheney will receive a new 1989 Corvette convertible.

Gale Johnson, drew the second prize winner, Gary Blanchard, owner of Blanchard's Lock and Key in Downey, California. Mr. Blanchard and his wife will receive a one week, all expense paid trip to Hawaii or a cruise in the Caribbean.

Marc Goldberg, Editor/Publisher of *The National Locksmith* drew the winning ticket for the third prize and that was E.W. Green from Green's Lock Shop in Spring, Texas. Mr. Green will also receive an all expense paid, one week trip for two.

Medeco DBK locksmiths qualified to participate in the contest by selling DBK products, making sales presentations per a prescribed format, attending training classes and co-op advertising.

## Tony Whitley Appointed ASSA Sales Rep.

ASSA High Security Locks has appointed Tony Whitley, Inc. as Sales Agent for Texas, Oklahoma, Arkansas, Louisiana and Mississippi; responsible for sales of all ASSA products. Tony Whitley and his associates, Tony Whitley, Jr. and Jon Moon have substantial security hardware marketing experience and are based in the Dallas Ft. Worth area.



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## Precision Products Appoints Executive Vice President

James L. Taylor, president of Precision Products, Inc., has announced the appointment of Walter M. Byington to the position of Executive Vice President.

Formerly the Executive Vice President of Sargent & Greenleaf, Inc. in Nicholasville, Kentucky, Byington brings 31 years of manufacturing management experience to Precision Products.

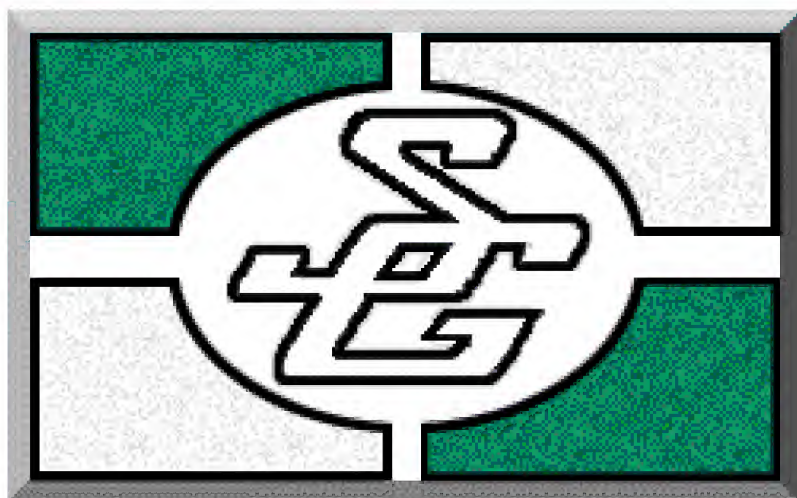


## Briggs & Stratton Names New V.P. & G.M.

Briggs & Stratton Corporation today announced that Harold M. Stratton II, 41, has been elected Vice President; General Manager Briggs & Stratton Technologies.

Stratton joined the Company in 1977 as Automotive Sales Coordinator and in 1979 was named Manager-Lock Sales. He received a B.A. Degree in Economics from St. Lawrence University, in Canton, NY. He also earned an M.B.A. Degree from the Notre Dame Graduate School of Business.

Prior to joining Briggs & Stratton Technologies, he spent three years with American Motors Corporation. His duties with American Motors included product planning, sales promotion and the supervision of major trade shows and exhibits.



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## Master Lock Honors Mark Eaton

For the second time in four years, Mark Eaton, center for the Utah Jazz, has been selected as the Master Lock/NBA Defensive Player of the Year.

George Villwock, president of Master Lock Co., presented Eaton with his award on Friday, May 12, in a half-time ceremony during the Milwaukee Bucks/Detroit Pistons' playoff game. "Master Lock is proud to honor Mark with the Defensive Player of the Year award," said Villwock. "By again winning this award, Mark has underscored his stellar strength, consistency and versatility...qualities that testify to his truly being 'tough under fire,' " said Villwock.





## Views Of NLSA And ALOA



NLSA President Howard Johnsen, Hans Johnsen Co.



(Left to right) Milt Goldman and Viri Mullins.



Len Pasarello presides as Marc Goldberg presents *The National Locksmith Award* to Dorothy Friend at ALOA.



(Left to right) Jerry Hoffman, John Stearman, Saul Espinoza schedule private conferences.



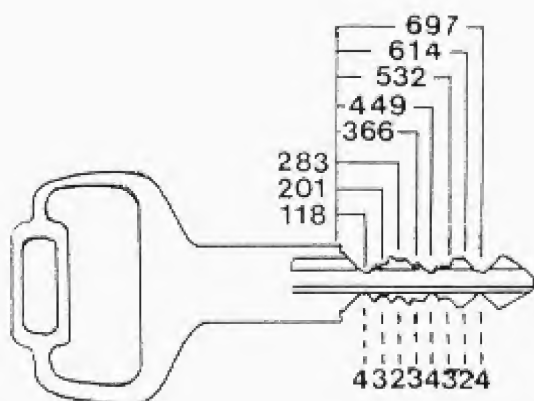
NAW President Dirk VanDongen.



New ALOA Executive Director, William Mathisen gives his first address.

## Nissan Codes 4001-8000

©The National Locksmith, Streamwood, IL 60107



*Editor's Note: A valet key may be made for the 1-8000 Nissan Series by using key blanks DAT14, (Silca), X124 (Taylor) or DA26 (ILCO).*

*These codes will appear in the NFCB 1990 update. Code books from The National Locksmith are the most complete system available. As an owner of our code books, you even get to use our free Code Hotline. See our ad on pages 56-57 for more information.*

### DEPTHS

0 -	5 -
1-0.276	6 -
2-0.256	7 -
3-0.239	8 -
4-0.219	9 -

### KEYWAYS

	MASTER	VALET
Silca	DAT13	DAT14
Taylor	X123	X124
Dominion	DT23	DT24
Curtis	DA-25	DA-26
Ilco	DA25	DA26





### 4001-8000 NISSAN

**Keyblanks:**

Silca      DAT13  
 Taylor     X123  
 Ilco        DA25

**Code Machines:**

1200 CM No.      XF67  
 Codemax No.     3 - 166  
 DSD Page Ref.    3-7

4001	4051	4101	4151	4201
01 12133132	51 24431242	01 43123324	51 34421343	01 13323312
02 32213124	52 43312344	02 43212233	52 32223444	02 12422423
03 21223334	53 43232211	03 12443242	53 42223423	03 44323213
04 32122334	54 43421244	04 42244334	54 23244421	04 33131223
05 21124224	55 11331122	05 31234432	55 23334223	05 42113122
06 43334232	56 21311233	06 34311334	56 23442342	06 23211134
07 24213431	57 12311224	07 12332342	57 13112312	07 44312334
08 11312421	58 23312123	08 12213344	58 23342134	08 43423442
09 44231213	59 43342332	09 23421213	59 34221244	09 32222434
10 11322223	60 24324221	10 21322123	60 23311321	10 32211133
11 22213312	61 44224431	11 42312134	61 44334332	11 44213434
12 23423433	62 32321311	12 23132111	62 43122444	12 12331222
13 34213234	63 34424223	13 22442332	63 23313424	13 13212243
14 24321121	64 24343244	14 21322442	64 34332342	14 44321334
15 11233444	65 43132443	15 42133331	65 13323112	15 42133111
16 12222443	66 13213332	16 21322111	66 23124343	16 22333221
17 24433222	67 43344323	17 22233121	67 22132433	17 13333212
18 43123133	68 11243124	18 13233112	68 21312243	18 23123313
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25 41123321	75 22434212	25 43342224	75 12421311	25 32423343
26 32234211	76 32122132	26 43212244	76 43223444	26 22122133
27 13423324	77 32243233	27 43431133	77 31342112	27 43321131
28 21313213	78 12244344	28 12333321	78 42213123	28 12342112
29 12422131	79 24432342	29 13242112	79 42423311	29 13243122
30 32134434	80 21123344	30 11344342	80 42421133	30 22121343
31 32321113	81 12232433	31 34231324	81 23123331	31 33244321
32 21324343	82 32234233	32 43342132	82 32211124	32 22313344
33 42344342	83 31232243	33 32423121	83 33423432	33 23343423
34 42133232	84 42322344	34 33121132	84 12334432	34 33234223
35 22324333	85 24312424	35 13123123	85 31122131	35 11342432
36 22133122	86 21323313	36 32311244	86 42432331	36 44323112
37 23343122	87 14132123	37 34334322	87 12422113	37 13323211
38 12221123	88 12311123	38 12221311	88 32432312	38 33243223
39 31132444	89 44213424	39 11234324	89 11213444	39 32311243
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41 43321344	91 21243431	41 13431231	91 32242113	41 22321332
42 24423434	92 31223243	42 32234442	92 32123311	42 31312421
43 44213112	93 34322213	43 44421342	93 24211244	43 42344223
44 44433231	94 13422444	44 42423111	94 13122421	44 33342344
45 12343443	95 43324343	45 43422331	95 34223323	45 22312332
46 33443124	96 34233434	46 12212343	96 23224423	46 34344222
47 24213442	97 42242343	47 12344332	97 31124243	47 44433422
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49 32134324	99 31123231	49 13442334	99 22321132	49 32121131
50 42244422	00 43223224	50 34312443	00 12342334	50 31344232





## 4001-8000 NISSAN

**Keyblanks:**

Silca      DAT13  
 Taylor     X123  
 Ilco        DA25

**Code Machines:**

1200 CM No.    XF67  
 Codemax No.    3 - 166  
 DSD Page Ref.   3-7

4251	4301	4351	4401	4451
51 32242342	01 24434434	51 11133423	01 11211233	51 43312331
52 23133134	02 24243124	52 44321231	02 32242333	52 21334212
53 31312444	03 23432244	53 31122113	03 13443324	53 21243312
54 33111234	04 23442333	54 12331231	04 42231332	54 11213424
55 12343322	05 42213334	55 23422344	05 13133423	55 13421234
56 44421331	06 31342121	56 44432234	06 11232133	56 34443242
57 43344224	07 32443442	57 34421224	07 31222231	57 32242131
58 43432231	08 32221323	58 21133422	08 23312322	58 34324344
59 11322121	09 32312223	59 32311323	09 34422131	59 44321312
60 43421323	10 22123134	60 23112443	10 33322221	60 31342443
61 13223432	11 23423132	61 11213421	11 23321322	61 32123113
62 12312342	12 42431134	62 44334233	12 31122443	62 31223331
63 23324422	13 44334211	63 42231132	13 44322324	63 42132242
64 12213234	14 11222442	64 43313442	14 24223234	64 32132113
65 43113422	15 32123131	65 21221244	15 43321311	65 34224224
66 43431113	16 23132432	66 22112444	16 43111233	66 43213212
67 43121324	17 33423131	67 24424231	17 43112333	67 43311233
68 42221113	18 12243334	68 23112322	18 13442123	68 33231121
69 12432112	19 11323244	69 24421133	19 31213334	69 32434431
70 34223422	20 13444222	70 34442212	20 12123334	70 34311224
71 22112123	21 12213124	71 11224332	21 12332344	71 43113424
72 42124443	22 13243342	72 21244331	22 21333442	72 34312221
73 31232311	23 24433334	73 33122131	23 44433123	73 34223424
74 43244212	24 33213231	74 24244321	24 42134213	74 21233423
75 42122423	25 34243312	75 24234223	25 44343312	75 24432234
76 34222434	26 44422134	76 13124432	26 12442331	76 43331224
77 43123111	27 24243331	77 44344313	27 32312324	77 13133223
78 42344421	28 34322422	78 43312122	28 21134421	78 23113334
79 44232131	29 44323211	79 33111223	29 21331123	79 32342433
80 33233234	30 43112122	80 13243234	30 32244212	80 42334211
81 32324431	31 24324432	81 11343231	31 33111331	81 13212212
82 11342313	32 12232334	82 32311222	32 32434233	82 22243331
83 42442323	33 33124344	83 34222243	33 21344433	83 24311311
84 44323312	34 12133224	84 23311213	34 13122322	84 33124331
85 43422311	35 43213232	85 32334434	35 13124342	85 43113322
86 44212234	36 34232312	86 23243213	36 22122443	86 23442344
87 24422123	37 43342312	87 43433232	37 22313243	87 24322124
88 24321134	38 44212311	88 12434334	38 42342421	88 22121321
89 44221234	39 23313312	89 31242343	39 32124442	89 42223311
90 42443223	40 34334223	90 11344421	40 24342111	90 32234332
91 13324432	41 13134433	91 24311342	41 22212443	91 33421243
92 13434423	42 42242244	92 24213321	42 44222211	92 22111344
93 13342124	43 12343243	93 22442244	43 32112122	93 23333442
94 43233212	44 12343122	94 23234244	44 32331132	94 42321121
95 31132123	45 31112444	95 21233324	45 34242212	95 12312234
96 43113433	46 23221323	96 32434211	46 13132224	96 34332344
97 31322434	47 34342134	97 31112213	47 23223424	97 12211124
98 31123123	48 13222244	98 34421321	48 23424313	98 21121333
99 11334244	49 44423423	99 31221113	49 11233431	99 22332121
00 43313112	50 21131132	00 43321113	50 33242343	00 43113211





## 4001-8000 NISSAN

### Keyblanks:

**Silca**      **DAT13**  
**Taylor**    **X123**  
**Ilco**        **DA25**

### Code Machines:

**1200 CM No.**      **XF67**  
**Codemax No.**     **3 - 166**  
**DSD Page Ref.**    **3-7**

4501	4551	4601	4651	4701
01 12423323	51 42123323	01 23432242	51 23223211	01 23112211
02 11334424	52 42433431	02 21344422	52 42323343	02 11232432
03 31211321	53 23423334	03 42343312	53 33232434	03 43342211
04 23243211	54 32432211	04 32331242	54 31311342	04 44234331
05 12332423	55 21342242	05 12312344	55 24312213	05 32231133
06 32212444	56 12444311	06 32422443	56 11222131	06 32221343
07 24431134	57 21133424	07 34433122	57 23243321	07 11122434
08 33242132	58 23332434	08 23311242	58 33113443	08 34242113
09 31231134	59 11324243	09 23421231	59 32242234	09 31134334
10 34311123	60 23124424	10 13324421	60 44333113	10 43344312
11 13122344	61 21321344	11 12231232	61 34212433	11 43221332
12 33112312	62 21234422	12 12112432	62 43122332	12 12243242
13 31222134	63 34332423	13 24322111	63 33134422	13 22442121
14 24423133	64 43243222	14 12324424	64 12224423	14 23244311
15 13321224	65 13442132	15 42312323	65 11221234	15 22313223
16 21311334	66 42312123	16 11331124	66 22234344	16 33243232
17 32324321	67 11222343	17 43322343	67 21233434	17 24333221
18 33322443	68 23442423	18 33243423	68 24433332	18 43312232
19 44213233	69 31133423	19 24332211	69 34324424	19 23121324
20 24344313	70 21231232	20 42332332	70 21123331	20 31231211
21 13213321	71 33324223	21 33422321	71 43131231	21 33321123
22 21244423	72 44311331	22 24422312	72 22131223	22 21244324
23 32313321	73 44423313	23 42232432	73 31212342	23 13242312
24 24334431	74 24433424	24 33231222	74 22233123	24 34212231
25 12224331	75 31121233	25 13421122	75 43343433	25 13234211
26 22433112	76 33422121	26 42122331	76 33123422	26 42342212
27 12431211	77 43213434	27 34324233	77 44224224	27 21133444
28 42334233	78 34223213	28 21121322	78 42334242	28 42213431
29 11221213	79 43322332	29 42223133	79 32322321	29 13224323
30 24432311	80 22124432	30 43243132	80 24213123	30 32231331
31 24324333	81 21343313	31 31322432	81 13112332	31 13232234
32 43131222	82 21213232	32 11224424	82 13433213	32 33321321
33 11133434	83 12233223	33 23421233	83 23134432	33 12112421
34 43223332	84 12433322	34 32443242	84 13234223	34 22443212
35 23312423	85 12112133	35 22333443	85 34433342	35 12421121
36 11222332	86 43431234	36 22313423	86 23113112	36 43231133
37 23432444	87 33113421	37 21342321	87 23443132	37 44333212
38 33432444	88 44233433	38 23313244	88 21133112	38 21222442
39 22112334	89 12442322	39 24333421	89 12222331	39 21122442
40 33122113	90 34232213	40 24324421	90 32132423	40 32433113
41 31222442	91 32242344	41 13343213	91 42423122	41 22311243
42 22332321	92 22332134	42 22111324	92 34422333	42 13311234
43 13433242	93 11122324	43 12132133	93 33211224	43 24442224
44 12343423	94 24443324	44 22124342	94 32423123	44 12434224
45 23223213	95 11231242	45 31242244	95 32442421	45 21344233
46 32112333	96 12124334	46 44324243	96 32334234	46 12344224
47 32132322	97 13133434	47 22444211	97 43122343	47 42312442
48 11234423	98 34322231	48 33122331	98 33221221	48 32134344
49 31334442	99 43211322	49 33424323	99 33424323	49 34433234
50 34244311	00 12443222	50 12243332	00 13342221	50 23442122





## 4001-8000 NISSAN

### Keyblanks:

Silca DAT13  
 Taylor X123  
 Ilco DA25

### Code Machines:

1200 CM No. XF67  
 Codemax No. 3 - 166  
 DSD Page Ref. 3-7

4751	4801	4851	4901	4951
51 23332124	01 33434234	51 32443312	01 34324213	51 31322124
52 31324234	02 11332233	52 13322221	02 21311224	52 23122321
53 34422131	03 42131322	53 34431221	03 23111244	53 34422234
54 22133322	04 42132112	54 31224424	04 44234232	54 13342423
55 31133434	05 43333112	55 34322132	05 43224432	55 32113444
56 22333122	06 42422321	56 21213431	06 11213233	56 32442344
57 23343311	07 21322321	57 13222433	07 23443323	57 42113423
58 42213442	08 13213123	58 42321112	08 43442432	58 33123224
59 21342422	09 24213334	59 13123323	09 22134224	59 33223124
60 23234431	10 12443433	60 44222233	10 13244334	60 22122333
61 42212234	11 13212443	61 33312242	11 42233332	61 21221332
62 12432431	12 11324322	62 32234231	12 23213212	62 33311243
63 42321134	13 13331124	63 21131321	13 33443332	63 34231212
64 34242342	14 23134211	64 43134443	14 43443332	64 24311234
65 31312332	15 22342331	65 43344332	15 23424433	65 31112244
66 22244334	16 33112242	66 22311232	16 44331212	66 32221321
67 12423431	17 42313122	67 13311223	17 44224433	67 42233242
68 24423221	18 23423424	68 12433423	18 23231212	68 42311311
69 42443232	19 31223324	69 13433244	19 33212113	69 13322443
70 32134234	20 43223134	70 43331211	20 33443212	70 33443111
71 22444312	21 44211231	71 33113223	21 31112233	71 21332421
72 42122311	22 44433312	72 43123432	22 34422113	72 32312221
73 11322443	23 43443431	73 31233312	23 23312313	73 43221123
74 23134223	24 43132234	74 13442242	24 22432134	74 11322322
75 24312321	25 23113332	75 42311342	25 44211312	75 24431123
76 24313223	26 13211312	76 31224312	26 12223442	76 34443222
77 33322344	27 22443443	77 43243334	27 13213334	77 31231123
78 24423111	28 23331132	78 43334234	28 22444332	78 13223331
79 42431123	29 43123122	79 32312432	29 24313421	79 13332231
80 42432212	30 43232433	80 33123424	30 12321324	80 13211123
81 22443111	31 34431322	81 42113232	31 13444323	81 13123433
82 24211332	32 32232312	82 13422112	32 22424312	82 22132442
83 42311123	33 42233233	83 33423124	33 13423421	83 22211132
84 33134242	34 34431133	84 31213442	34 24322421	84 44331344
85 22113221	35 21134434	85 22442431	35 11332242	85 44313344
86 44222433	36 32211122	86 42223111	36 13432421	86 12332243
87 31233213	37 23122213	87 32213432	37 32322112	87 34424313
88 42112242	38 13113234	88 42443313	38 33342234	88 12233133
89 21333312	39 34432244	89 32232112	39 43112324	89 11324342
90 32223134	40 42134424	90 44332233	40 43221224	90 12434424
91 34321322	41 42133221	91 22124421	41 21244221	91 24342122
92 12432442	42 12242443	92 31221234	42 43311334	92 42313421
93 21132432	43 21213434	93 23422243	43 22432131	93 24244213
94 21234312	44 13122122	94 23433423	44 44321132	94 12324332
95 12123423	45 42443124	95 44324322	45 22132431	95 31233244
96 12344321	46 32233421	96 11343321	46 34422423	96 44321332
97 13433211	47 34442221	97 24331221	47 24433312	97 42423432
98 21343212	48 21134324	98 23332432	48 23344433	98 32233234
99 22312112	49 22421133	99 23423332	49 21123123	99 23112311
00 13434234	50 32422111	00 11334321	50 13342234	00 31321224





### 4001-8000 NISSAN

**Keyblanks:**

Silca      DAT13  
 Taylor     X123  
 Ilco        DA25

**Code Machines:**

1200 CM No.      XF67  
 Codemax No.     3 - 166  
 DSD Page Ref.    3-7

5001	5051	5101	5151	5201
01 13432443	51 34312223	01 32434222	51 24244233	01 43224421
02 24313443	52 12243244	02 44211123	52 22324434	02 22312134
03 13122211	53 34324332	03 42442433	53 22133232	03 11232234
04 21133233	54 42213244	04 34442234	54 13224422	04 21331233
05 21243213	55 42313443	05 11132422	55 31324443	05 21221123
06 24234324	56 42332121	06 12223312	56 42211334	06 33431222
07 31231321	57 21342233	07 44433121	57 32422342	07 32334421
08 33244233	58 24224424	08 11333443	58 43123234	08 21322233
09 22322434	59 22212343	09 32444311	59 43232134	09 43242432
10 31344311	60 24424224	10 23344422	60 13134442	10 22332444
11 44232331	61 34322312	11 23221132	61 31232212	11 44332422
12 42231233	62 33312422	12 23342233	62 32324433	12 13322344
13 31212344	63 12333224	13 33442442	63 22244244	13 43332131
14 44334222	64 44422343	14 34211221	64 13322322	14 23431243
15 24332231	65 32134322	15 23112232	65 34221134	15 24433121
16 23111242	66 31332321	16 12113334	66 11332433	16 24312244
17 23223343	67 12433434	17 13342113	67 22324324	17 24243111
18 31113234	68 33123312	18 13232434	68 44311311	18 24221344
19 12342343	69 12424432	19 11331331	69 22234324	19 23431243
20 42312343	70 31211323	20 11244222	70 33324434	20 32311213
21 23321223	71 32112324	21 24312433	71 34312324	21 21331244
22 12421134	72 32224443	22 23131134	72 42243322	22 42113133
23 21123324	73 42431242	23 32443233	73 42433322	23 24342324
24 43321223	74 24322333	24 32134232	74 34212312	24 34331211
25 44422332	75 12334311	25 43211313	75 31213244	25 12132421
26 21332443	76 32442131	26 22312231	76 34242234	26 33124423
27 32232231	77 43113243	27 31232443	77 12444223	27 12423121
28 31331342	78 12343311	28 42432421	78 32213234	28 23333242
29 23312243	79 12244313	29 33344432	79 42333443	29 21112234
30 32122121	80 44324342	30 23224344	80 24211132	30 31134233
31 13313324	81 24224312	31 13322122	81 42334222	31 33224211
32 31123323	82 32224312	32 44213433	82 42324443	32 33342223
33 32132331	83 43422421	33 34211333	83 44313243	33 23344233
34 43332421	84 31224343	34 13344432	84 13421124	34 24422112
35 44243313	85 13421333	35 11244431	85 44342331	35 22433442
36 11322344	86 32224333	36 11132433	86 24312233	36 11211224
37 34423322	87 22421344	37 42433134	87 33324324	37 12422133
38 34223343	88 32442133	38 24223133	88 12243233	38 13342223
39 42231244	89 43332443	39 32442322	89 21331231	39 42313342
40 44332242	90 43432211	40 33224343	90 23132434	40 44332433
41 12421332	91 33311232	41 32242243	91 32332113	41 13113331
42 31122243	92 24311223	42 44432232	92 43433221	42 13331131
43 43113343	93 23433434	43 11332422	93 42342221	43 23244344
44 42322443	94 43133422	44 23423112	94 24331342	44 43313222
45 23312311	95 42332321	45 42231242	95 42433233	45 42234243
46 23211322	96 44213422	46 24442321	96 31134211	46 31131322
47 11212231	97 32344222	47 33434232	97 43122112	47 24224343
48 11122432	98 23344213	48 32113213	98 13423342	48 22331234
49 34332243	99 22211213	49 21133242	99 24313342	49 32233344
50 23133132	00 33221131	50 23111222	00 33233442	50 33424431





### 4001-8000 NISSAN

**Keyblanks:**

Silca      DAT13  
 Taylor     X123  
 Ilco        DA25

**Code Machines:**

1200 CM No.      XF67  
 Codemax No.     3 - 166  
 DSD Page Ref.    3-7

5251	5301	5351	5401	5451
51 32342431	01 32222131	51 43311123	01 43223334	51 24424323
52 32321322	02 44333243	52 44421243	02 43443211	52 43222333
53 33221113	03 12242113	53 44331133	03 13323444	53 24223434
54 32124321	04 31132422	54 13442233	04 23312133	54 22343343
55 32424434	05 23123432	55 23133224	05 42343321	55 13444211
56 42312211	06 23233122	56 13313212	06 43332234	56 13424332
57 11234443	07 12211322	57 12442421	07 43244331	57 44224332
58 21243321	08 31342331	58 31232344	08 43133112	58 34224223
59 21343342	09 22432434	59 44313423	09 31132233	59 21342322
60 33213444	10 22343443	60 12424421	10 21223132	60 21313323
61 44242211	11 23432132	61 42331221	11 43332122	61 42422134
62 43123342	12 13223324	62 43134423	12 13322223	62 32222113
63 42131331	13 21312211	63 44213224	13 13342243	63 24233242
64 12312232	14 42334231	64 13431233	14 24233332	64 32332324
65 32231324	15 24442211	65 44322423	15 43224322	65 13112433
66 21334342	16 44223423	66 24433231	16 33134231	66 21334243
67 33234423	17 43311224	67 13221211	17 34234224	67 12432113
68 33131124	18 12431232	68 34321223	18 21124332	68 21313444
69 32132232	19 43124323	69 12242342	19 11324423	69 22311331
70 32232132	20 33442323	70 23312124	20 31113331	70 22211321
71 31331124	21 31344313	71 34222131	21 31243211	71 34434233
72 34312434	22 22443423	72 32223334	22 13113434	72 12134432
73 23113321	23 24331234	73 42312242	23 24431321	73 12112434
74 23122433	24 22133111	74 44231224	24 21223321	74 32124334
75 21311332	25 24334224	75 43323223	25 11243322	75 13233244
76 34431234	26 23111334	76 13222444	26 34434211	76 21323243
77 13331124	27 24233233	77 22432324	27 13232432	77 11344333
78 32442342	28 21343113	78 32133422	28 21324422	78 24423243
79 23344431	29 22344322	79 42344333	29 22243311	79 43324422
80 24211213	30 33113324	80 43113113	30 12113332	80 11222134
81 43133424	31 33442231	81 11323323	31 23423233	81 34233234
82 33222334	32 12112342	82 33442112	32 12231344	82 34211344
83 31244231	33 23122231	83 24223111	33 43121342	83 11213433
84 34431331	34 32443433	84 23121221	34 13313311	84 33213112
85 23312212	35 44312213	85 12233212	35 11243121	85 23332111
86 44212113	36 31132433	86 12232244	36 34431311	86 13443122
87 43443213	37 22334242	87 34222133	37 33311311	87 43111342
88 21112322	38 22123424	88 12434213	38 22132233	88 42232434
89 13244244	39 23113231	89 24334433	39 42342234	89 43442212
90 44431321	40 32434433	90 23342213	40 33123112	90 13423434
91 34342233	41 33431231	91 34344211	41 43342431	91 22233424
92 33422134	42 22134442	92 43334421	42 44312321	92 44333423
93 12132443	43 21332234	93 44233442	43 44313223	93 32132124
94 42333122	44 42242132	94 22213444	44 42342423	94 33342124
95 21342134	45 33231132	95 34442223	45 21131222	95 43112113
96 31331322	46 34233421	96 13431244	46 31121123	96 32113222
97 31122223	47 21332122	97 21231344	47 13331122	97 13431242
98 13242233	48 31311212	98 32131134	48 43323322	98 44324423
99 24423122	49 13221344	99 34324231	49 43133444	99 24211242
00 32232444	50 43431221	00 12221134	50 43123223	00 44232133





### 4001-8000 NISSAN

**Keyblanks:**

**Silca**      **DAT13**  
**Taylor**    **X123**  
**Ilco**        **DA25**

**Code Machines:**

**1200 CM No.**      **XF67**  
**Codemax No.**     **3 - 166**  
**DSD Page Ref.**    **3-7**

5501	5551	5601	5651	5701
01 23434423	51 42442112	01 44422422	51 22432432	01 32242133
02 13232232	52 31334321	02 34433124	52 44234311	02 23324323
03 44331113	53 24332424	03 22442312	53 12311332	03 12433131
04 44242231	54 43121331	04 21224243	54 13422334	04 13312424
05 33443423	55 11331243	05 24421221	55 22423432	05 44324311
06 43344321	56 21134234	06 11324311	56 31242132	06 43324323
07 33123442	57 23131123	07 13324434	57 23243323	07 42442121
08 21132342	58 42443342	08 12134211	58 42433323	08 13123343
09 22443331	59 13422424	09 34312432	59 13112424	09 42243223
10 22123312	60 23243224	10 23313123	60 42244224	10 32433232
11 42313322	61 42122133	11 24233213	61 21313421	11 13221223
12 12443312	62 21113444	12 43224324	62 43423224	12 12344242
13 21224443	63 22244343	13 12331244	63 34442313	13 32244423
14 33212342	64 42121343	14 43312443	64 44223311	14 24234344
15 22434324	65 43124244	15 23443431	65 44211343	15 32444223
16 32134331	66 22444321	16 13112132	66 21244432	16 23123342
17 21331121	67 13444312	17 42322131	67 13213244	17 44243342
18 13332424	68 12224344	18 12232134	68 21342334	18 32133112
19 22344324	69 13122313	19 11212333	69 13344331	19 23334432
20 24213244	70 11232434	20 24432344	70 22213424	20 42333344
21 34222113	71 44321233	21 34423213	71 13424233	21 31233111
22 21344231	72 33132231	22 13422323	72 22312123	22 23443332
23 31344231	73 12331233	23 43122431	73 32432444	23 44431213
24 21224333	74 34342213	24 43232422	74 22343242	24 43311332
25 33224442	75 22234423	25 22213112	75 42234342	25 12422443
26 12134342	76 33243113	26 23311312	76 21132434	26 44334242
27 33213424	77 13123233	27 44243122	77 23123133	27 33132424
28 23131224	78 11321334	28 44433134	78 13133122	28 13244343
29 13422431	79 43212112	29 11234331	79 21342131	29 12331242
30 23211313	80 24433422	30 42421344	80 12112223	30 23433131
31 32344334	81 21131231	31 31312231	81 13242433	31 44222132
32 44222431	82 42344234	32 32112113	82 24243322	32 42122113
33 23322213	83 44322342	33 43234433	83 21323124	33 11321231
34 21134344	84 11331213	34 23234433	84 24443122	34 33444224
35 43244423	85 31344243	35 34211324	85 21323423	35 13342232
36 41243243	86 11133344	36 12443244	86 42423124	36 31112334
37 23422432	87 32133424	37 43321322	87 43243343	37 43124233
38 42122131	88 13242213	38 22131342	88 33132134	38 31131331
39 11223443	89 33223131	39 13222431	89 33423113	39 31331131
40 34224443	90 43232431	40 13422231	90 42132424	40 23342334
41 21332342	91 11342311	41 23424331	91 21233124	41 11212443
42 43312113	92 24221311	42 21324323	92 43343243	42 31332444
43 24442243	93 42223421	43 22422343	93 11323442	43 32431243
44 23331213	94 31113434	44 11311342	94 32423312	44 21321342
45 31234243	95 43243244	45 24324434	95 32123423	45 34312421
46 21323342	96 33122133	46 43122424	96 23343421	46 21244322
47 32244331	97 21323324	47 11331324	97 32432123	47 34423211
48 42312422	98 43234244	48 33233121	98 34212332	48 12133433
49 42311212	99 22432243	49 24233112	99 42112312	49 13424312
50 11344223	00 43343322	50 12444232	00 21122244	50 44224312





### 4001-8000 NISSAN

**Keyblanks:**

Silca      DAT13  
 Taylor     X123  
 Ilco        DA25

**Code Machines:**

1200 CM No.      XF67  
 Codemax No.     3 - 166  
 DSD Page Ref.    3-7

5751	5801	5851	5901	5951
51 32122134	01 22423131	51 43443422	01 34443312	51 31243331
52 23123324	02 12242234	52 23221213	02 42343442	52 32324424
53 21312342	03 12133222	53 21124313	03 44212342	53 23112421
54 21132122	04 24343312	54 34432132	04 11132431	54 34342112
55 12223123	05 12443233	55 32131224	05 33342221	55 22133221
56 22133432	06 42233334	56 33123132	06 43131233	56 13212313
57 21123122	07 44312433	57 32232211	07 12113321	57 43333224
58 43423323	08 33113434	58 23432433	08 34433444	58 13443223
59 12132223	09 31223443	59 44322243	09 12331121	59 32234424
60 11213224	10 42122443	60 13332132	10 21223111	60 13343211
61 44242134	11 33244231	61 31133223	11 22123112	61 33324243
62 13321323	12 42213231	62 23243344	12 42433132	62 44312424
63 23132212	13 24231213	63 21134322	13 22132112	63 23323344
64 33221234	14 11133243	64 42131232	14 32244324	64 33312211
65 33223113	15 12423123	65 21321331	15 23433122	65 31122221
66 42342223	16 44232432	66 42131122	16 42132332	66 21342111
67 43243233	17 21123432	67 13133243	17 22132112	67 12442342
68 44423331	18 42331234	68 43213243	18 33212232	68 34222342
69 11212431	19 23112133	69 33124223	19 21313242	69 12233243
70 12442133	20 11223324	70 22233134	20 21134232	70 12433342
71 31123233	21 13134212	71 13133421	21 13211231	71 12113231
72 33113311	22 43233232	72 42233433	22 22313122	72 21312234
73 34432332	23 21112313	73 13242442	23 24422431	73 34213342
74 43244324	24 12334234	74 43133242	24 42342243	74 31124333
75 21113213	25 23423422	75 33223221	25 34342334	75 33431134
76 44311212	26 32432224	76 32113123	26 21223433	76 43234431
77 21313424	27 34322121	77 32131123	27 31213231	77 31243112
78 31244222	28 42131324	78 24332224	28 42124432	78 13431134
79 23342112	29 23122444	79 42431121	29 13134224	79 33231231
80 32133444	30 42313124	80 42442431	30 31331311	80 43213324
81 32312434	31 42124322	81 34442232	31 31331122	81 33112132
82 42332444	32 11342324	82 42112211	32 31243124	82 24313122
83 13331243	33 13344322	83 12233322	33 42234421	83 43124442
84 11122342	34 31133344	84 43111343	34 11132442	84 42243311
85 12112124	35 24421344	85 13422224	35 42211332	85 44331232
86 11223342	36 13334242	86 24332132	36 42344232	86 23231232
87 23432213	37 33122443	87 12132324	37 22133443	87 21132311
88 31112224	38 21234334	88 32442122	38 24244231	88 13423133
89 34442311	39 23432422	89 23121342	39 43131244	89 24334213
90 42212113	40 44322122	90 24312431	40 21244223	90 22123442
91 42322113	41 23112432	91 12433122	41 13211233	91 43244221
92 44234234	42 24323343	92 42123433	42 23123111	92 43231232
93 24334312	43 23421132	93 43343423	43 44431121	93 23213232
94 23243442	44 13343224	94 34423134	44 32231232	94 32334212
95 23124323	45 11234232	95 31134222	45 13212434	95 31234342
96 44231211	46 42121321	96 11343323	46 24313113	96 42124342
97 24433123	47 12211313	97 22124434	47 24422424	97 33234443
98 44243234	48 44233121	98 34334432	48 22433332	98 11244433
99 23332221	49 21321133	99 22344212	49 24434232	99 24323213
00 11122312	50 13332224	00 23122123	50 32422124	00 24422323





## 4001-8000 NISSAN

### Keyblanks:

Silca      DAT13  
 Taylor    X123  
 Ilco      DA25

### Code Machines:

1200 CM No.      XF67  
 Codemax No.    3 - 166  
 DSD Page Ref.   3-7

6001	6051	6101	6151	6201
01 11122234	51 12234224	01 34221121	51 43232244	01 12313224
02 21324211	52 22331221	02 12232442	52 42222334	02 21322343
03 32424333	53 23344231	03 13421211	53 33211334	03 12321133
04 33424333	54 24312224	04 33321134	54 23432112	04 33432443
05 22334231	55 44211233	05 33232113	55 24443223	05 34242133
06 34422133	56 43131242	06 23443213	56 11244422	06 33423443
07 11232232	57 23324211	07 43313213	57 43134243	07 42224433
08 24321334	58 11344232	08 44213134	58 13222233	08 12323322
09 31223342	59 43324211	09 12321342	59 22313443	09 42334422
10 44432131	60 12233342	10 42243133	60 33432421	10 24334442
11 12343421	61 22233321	11 12444313	61 22234211	11 24443342
12 12434321	62 22211323	12 32231212	62 23311211	12 11311234
13 23134434	63 32431122	13 11122344	63 33111342	13 42112332
14 22343244	64 44333324	14 44423324	64 31132442	14 13421324
15 43132113	65 24312132	15 34244313	65 32332212	15 43313211
16 23444212	66 32134212	16 42323444	66 12334232	16 43432123
17 43121234	67 12122134	17 24223421	67 12312122	17 43132423
18 43212134	68 34234213	18 24323211	68 34424331	18 43224311
19 33433211	69 32124422	19 42244343	69 34443233	19 32211322
20 24422231	70 23322231	20 23111332	70 33342423	20 22323123
21 44344331	71 11224343	21 42323444	71 22443133	21 12213342
22 42342124	72 13212311	22 23311132	72 12123322	22 24243223
23 42421311	73 43221121	23 23431124	73 32342321	23 43442234
24 24234322	74 23433234	24 42213323	74 13442343	24 43442234
25 23121331	75 12232431	25 33424321	75 12423444	25 34432321
26 42124324	76 24431121	26 23333422	76 42422332	26 21234244
27 13344324	77 23122431	27 12442333	77 24442334	27 21213324
28 33112424	78 24424431	28 22121123	78 23124233	28 13324223
29 34231232	79 24323312	29 21213243	79 33222112	29 32113422
30 43423431	80 13243243	30 22312343	80 43334212	30 12321331
31 31133243	81 34243213	31 44322223	81 21322332	31 42342232
32 31133421	82 22311311	32 22213233	82 32133242	32 11323343
33 32233113	83 32322343	33 12212213	83 22432133	33 32332124
34 32213422	84 34213423	34 12312113	84 42223434	34 31321323
35 33422343	85 34311332	35 31132431	85 11242211	35 32121324
36 32431223	86 42244323	36 34423231	86 21243224	36 32344211
37 24422334	87 21123234	37 21332232	87 11224211	37 31312323
38 13443342	88 24332312	38 24234443	88 34322433	38 23213434
39 23124244	89 12432233	39 34242333	89 43332232	39 32132111
40 33231244	90 33433244	40 21113222	90 32444232	40 13423221
41 21332311	91 43222434	41 32244221	91 31334244	41 42124421
42 44324313	92 11334332	42 33442332	92 32233311	42 31234421
43 12442111	93 43422234	43 34432332	93 34243211	43 31213323
44 24423311	94 33434212	44 43231212	94 43222243	44 31331243
45 21112232	95 32342242	45 13321343	95 34242131	45 24312312
46 24323112	96 13434212	46 22133342	96 44432122	46 11243311
47 33124243	97 33211134	47 31122333	97 34211243	47 13423111
48 22343112	98 34212242	48 43223244	98 21123342	48 11334211
49 42313313	99 23122424	49 13231121	99 33324322	49 21313244
50 12433234	00 34324224	50 11243132	00 42422343	50 23343124





# 4001-8000 NISSAN

## Keyblanks:

Silca      DAT13  
 Taylor     X123  
 Ilco        DA25

## Code Machines:

1200 CM No.      XF67  
 Codemax No.     3 - 166  
 DSD Page Ref.    3-7

6251	6301	6351	6401	6451
51 24211323	01 34432213	51 23221231	01 22333344	51 42233211
52 33112332	02 12442344	52 21334423	02 33223344	52 13234443
53 22133124	03 23223442	53 13422213	03 43112322	53 32113424
54 12123421	04 12422324	54 22324342	04 32223112	54 23422434
55 21234433	05 22132132	55 22331342	05 44233123	55 42211213
56 12432121	06 42442332	56 34432422	06 43232213	56 42431321
57 24321312	07 44223234	57 23122343	07 32321313	57 31311234
58 44243243	08 43211333	58 24333443	08 23243121	58 44432324
59 11344211	09 43322224	59 32434312	09 13312321	59 13333421
60 43242331	10 22123132	60 22423124	10 42121323	60 22133331
61 13432223	11 33342113	61 31123433	11 32312313	61 12322132
62 44221223	12 44232234	62 43342321	12 11312343	62 12231122
63 34434421	13 42232234	63 11212243	13 24433431	63 23234442
64 23244313	14 42443423	64 32344343	14 21333242	64 34322334
65 23243112	15 23333424	65 42233112	15 13324243	65 23121234
66 32113433	16 24434423	66 33222244	16 42233312	66 13243124
67 24324223	17 33322131	67 12233331	17 33113234	67 32434231
68 12431342	18 34242344	68 11313344	18 42113421	68 31121244
69 11342443	19 31131122	69 22313342	19 11132233	69 34422443
70 21333424	20 31131232	70 31233442	20 32331213	70 44242332
71 12422342	21 23122332	71 32332432	21 23213324	71 44244323
72 44433431	22 34211232	72 11321332	22 32421343	72 24442123
73 13212432	23 23322132	73 32432332	23 21331132	73 33132224
74 31131324	24 13334222	74 44334231	24 43343311	74 44343321
75 31132132	25 11321132	75 33243324	25 22442321	75 11343213
76 23113323	26 24432122	76 42322313	26 13231231	76 23223312
77 34442124	27 42233213	77 32233432	27 13122423	77 32112234
78 12433331	28 12334421	78 22111234	28 31224211	78 12324442
79 32321324	29 43322132	79 34423433	29 33132211	79 21122334
80 43342242	30 42423131	80 12442423	30 34322323	80 13243331
81 44212232	31 13132444	81 31312442	31 43223112	81 13334231
82 34434231	32 23343223	82 24233433	32 42113243	82 32113211
83 33223432	33 21321243	83 34432433	33 13224334	83 43113443
84 33422244	34 12443134	84 12424434	34 43222432	84 31344423
85 12443112	35 12213423	85 42132321	35 32111244	85 12324312
86 13231222	36 34223442	86 42221344	36 33442244	86 22443432
87 23132131	37 11311223	87 13321123	37 23124442	87 24432232
88 44311342	38 12443321	88 33324342	38 13213231	88 34242111
89 12231234	39 32421132	89 12124422	39 24231312	89 43342422
90 33311311	40 34243321	90 22323321	40 12333123	90 22434432
91 43211221	41 43432224	91 21133431	41 13421223	91 32311312
92 13312213	42 22342342	92 23234233	42 42131124	92 42321334
93 42134244	43 12243343	93 22344221	43 22443221	93 23123122
94 11334233	44 21134331	94 42132211	44 42113124	94 42322311
95 13223443	45 43233131	95 13344212	45 43344242	95 24333122
96 32342422	46 23233131	96 42212342	46 13443232	96 33322113
97 24233334	47 33424334	97 31334424	47 24324243	97 13244224
98 24213231	48 43112234	98 43213311	48 21122323	98 42312334
99 23243134	49 43221134	99 21123223	49 33431123	99 23132122
00 22234443	50 12432134	00 21332133	50 13431123	00 11224442





## 4001-8000 NISSAN

### Keyblanks:

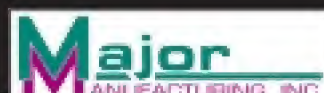
Silca DAT13  
 Taylor X123  
 Ilco DA25

### Code Machines:

1200 CM No. XF67  
 Codemax No. 3 - 166  
 DSD Page Ref. 3-7

6501	6551	6601	6651	6701
01 23444221	51 23243231	01 23422331	51 13233123	01 33432113
02 42423113	52 43313321	02 42333111	52 22433231	02 42134312
03 43443224	53 21342213	03 24224211	53 34332324	03 24221333
04 34234312	54 22421333	04 21133211	54 44432243	04 13133131
05 23333444	55 22343422	05 31134242	55 32442333	05 32431344
06 22112442	56 22434322	06 24213323	56 32432244	06 24331322
07 33423234	57 13112343	07 21124211	57 34212431	07 11234234
08 21323113	58 12133442	08 43113244	58 22421124	08 12431113
09 24243311	59 12133442	09 33443221	59 44313122	09 31222312
10 24234331	60 42224431	10 43233221	60 34443112	10 44422211
11 31134422	61 42234221	11 23343324	61 42311234	11 12432334
12 43423121	62 23112342	12 23233221	62 33443432	12 32422344
13 23421244	63 33213422	13 24243133	63 23432442	13 34344323
14 34223312	64 13443313	14 44223223	64 22234331	14 12313112
15 13113344	65 33234232	15 33431244	65 31133212	15 43244432
16 22111223	66 12423343	16 23233111	66 24421234	16 34443134
17 21112443	67 44342322	17 42124311	67 33233224	17 43113112
18 13223342	68 42133113	18 24443232	68 34432112	18 44432432
19 21211322	69 42433242	19 42123343	69 23423442	19 11211334
20 31221344	70 12343124	20 32431124	70 23323111	20 24332112
21 13443124	71 32233443	21 34312322	71 21133121	21 23112434
22 32112322	72 22111331	22 33342243	72 32421321	22 24332244
23 32433221	73 12442122	23 31234434	73 42211242	23 34443321
24 34232332	74 42211244	24 13311313	74 32111222	24 31224442
25 23322312	75 23431131	25 32232433	75 11242134	25 43213122
26 43423244	76 23223121	26 32212442	76 23131121	26 22213433
27 32212334	77 21331242	27 12432424	77 12324343	27 34322444
28 42233244	78 31311223	28 31321343	78 43213113	28 42332233
29 13432124	79 11313243	29 44422123	79 31113344	29 33122223
30 33131232	80 24432324	30 44243124	80 22311212	30 22231134
31 43322312	81 42213312	31 22124344	81 13332112	31 32224432
32 43312223	82 32342233	32 23432431	82 24324322	32 21124433
33 12444234	83 32212132	33 11322431	83 13332244	33 23333211
34 43124231	84 11234311	34 23434422	84 24331124	34 24422213
35 21122132	85 11343211	35 24234423	85 34423132	35 44342342
36 34324312	86 33422422	36 42421122	86 43211344	36 23421323
37 43233122	87 31124443	37 31212331	87 12313343	37 44312224
38 32111242	88 11322133	38 31312343	88 44232434	38 12334434
39 31324221	89 22113432	39 12343223	89 21133244	39 42212344
40 13333221	90 21221134	40 12322312	90 42113223	40 33442422
41 34324312	91 23443334	41 32444313	91 42344311	41 34342343
42 34322134	92 42423343	42 23422313	92 13112213	42 33431242
43 34233113	93 24442132	43 23443422	93 24342322	43 22343123
44 22332433	94 33232243	44 23321324	94 24313322	44 13424422
45 24342331	95 42442312	45 42333311	95 12244331	45 23211221
46 43442223	96 24343321	46 43312324	96 24443124	46 23431223
47 23342343	97 21234431	47 13324322	97 42123424	47 42313221
48 21333213	98 34223121	48 24221133	98 33134431	48 34324343
49 13313344	99 33223243	49 43321324	99 42432124	49 24321132
50 32222133	00 12332324	50 22233132	00 42433213	50 42243312





# 4001-8000 NISSAN

## Keyblanks:

Silca      DAT13  
 Taylor     X123  
 Ilco        DA25

## Code Machines:

1200 CM No.      XF67  
 Codemax No.     3 - 166  
 DSD Page Ref.    3-7

6751	6801	6851	6901	6951
51 44242312	01 43244322	51 43223132	01 34224243	51 24442242
52 42321312	02 21334221	52 21223213	02 12232213	52 43112313
53 11322113	03 43322213	53 31332242	03 21131244	53 43343122
54 13312433	04 43321313	54 44213222	04 31321123	54 42442422
55 21333244	05 22243133	55 13221333	05 31133131	55 23112223
56 13213323	06 12244212	56 42342113	06 13344221	56 34232242
57 32211313	07 43333121	57 33324423	07 31234221	57 12311244
58 12223431	08 21132133	58 22433334	08 13442213	58 12113323
59 23113431	09 43123422	59 32443112	09 23122112	59 33432221
60 33442121	10 44322221	60 12212334	10 42123312	60 21133332
61 24443313	11 44231134	61 44313421	11 42132134	61 13432221
62 34312423	12 23444333	62 21131233	12 42431213	62 32442423
63 12242333	13 32231344	63 43211324	13 42131131	63 24233312
64 33224323	14 12331132	64 24423432	14 32443134	64 33442431
65 43344213	15 13423122	65 24421122	15 42123134	65 21243134
66 31133311	16 42311223	66 24311313	16 13233442	66 11344234
67 11233233	17 22443421	67 11133122	17 34331134	67 32424423
68 42431132	18 42243443	68 32342134	18 22433422	68 33242211
69 23211333	19 22124331	69 32432321	19 32443321	69 33211332
70 34213313	20 32223132	70 43113332	20 24324324	70 13124434
71 23113312	21 13211224	71 43223321	21 34233432	71 44433233
72 33423344	22 23333244	72 23134421	22 22233444	72 23424432
73 42213444	23 34224333	73 24432432	23 31213444	73 23433124
74 13313243	24 22324423	74 44321211	24 22443322	74 23442432
75 42224332	25 11344311	75 12244423	25 32232334	75 32243422
76 13132213	26 43442313	76 42324432	26 22334422	76 34423334
77 22244323	27 43124321	77 31121134	27 31321321	77 13322113
78 22243423	28 33423223	78 33213224	28 33243212	78 12343324
79 13122331	29 32223321	79 11313223	29 11212313	79 12223444
80 32213221	30 12423312	80 33424211	30 42433244	80 32244322
81 23113134	31 23243433	81 32442344	31 44322443	81 12242344
82 13322131	32 32334342	82 44242242	32 31221311	82 33424424
83 23431122	33 43224342	83 32433344	33 32312133	83 22312323
84 42221311	34 31324432	84 42322133	34 21113433	84 33342232
85 23113442	35 12134434	85 24321213	35 33311212	85 23331224
86 12313442	36 33132121	86 31342342	36 31131124	86 12212442
87 34223233	37 32132243	87 13324324	37 44313443	87 11334222
88 43342233	38 23123234	88 21113422	38 12212132	88 42443212
89 21132131	39 12242133	89 13312244	39 12433124	89 24424433
90 14234433	40 24434234	90 34242243	40 31121334	90 43344431
91 32312212	41 42433211	91 44233224	41 12112344	91 13313423
92 13211343	42 44431132	92 34231344	42 44213132	92 13234423
93 31132242	43 43132232	93 42332242	43 24333344	93 24431132
94 23321313	44 24334334	94 21121324	44 42331342	94 42232113
95 34334311	45 13224244	95 44311234	45 24211321	95 42231213
96 11312242	46 13312233	96 32111334	46 34433223	96 24233211
97 42132121	47 34213221	97 11333344	47 43123443	97 13221322
98 44223421	48 22431231	98 31221223	48 13233323	98 23243123
99 13221133	49 23133222	99 32244432	49 44211224	99 32432422
00 42132231	50 12123434	00 33113344	50 24224442	00 32232134





## 4001-8000 NISSAN

### Keyblanks:

Silca      DAT13  
 Taylor    X123  
 Ilco      DA25

### Code Machines:

1200 CM No.      XF67  
 Codemax No.    3 - 166  
 DSD Page Ref.   3-7

7001	7051	7101	7151	7201
01 12112423	51 23123244	01 44321224	51 22443234	01 13424213
02 13444332	52 32134443	02 44433242	52 43133431	02 42112132
03 11321233	53 43112311	03 32444234	53 32243431	03 42331322
04 32311132	54 13222132	04 21334443	54 21124343	04 34242232
05 31312311	55 42344313	05 21124431	55 23421343	05 13123134
06 42433321	56 12231124	06 22433123	56 13233224	06 22134424
07 32443121	57 44223133	07 12422124	57 23342121	07 24331331
08 13224233	58 13231132	08 32123322	58 31324421	08 23343111
09 21131242	59 42423443	09 21113424	59 21332344	09 24231224
10 13423243	60 23113223	10 24431213	60 43422131	10 43312221
11 21231124	61 31332422	11 34233443	61 44422233	11 12422111
12 22131232	62 11133421	12 34433243	62 23123223	12 34423424
13 33243432	63 24233244	13 31211231	63 44312244	13 31342344
14 31112321	64 32212213	14 44234212	64 23223123	14 22231123
15 34322431	65 34212444	15 23443322	65 44221344	15 33323311
16 24433134	66 21211313	16 21132344	66 23211344	16 43432244
17 44311223	67 43342134	17 32431131	67 43112232	17 21224432
18 44333421	68 43124334	18 22312442	68 32424324	18 43323344
19 33443421	69 32224421	19 24213312	69 12311323	19 34433324
20 13422311	70 33344322	20 21323121	70 11324331	20 11332442
21 22333124	71 13212113	21 42332433	71 32213342	21 43222131
22 13134424	72 11232113	22 44322322	72 32244223	22 42232342
23 43244223	73 11313321	23 33421221	73 33322234	23 21332423
24 42443111	74 42112433	24 22433424	74 24331131	24 43442221
25 43313112	75 32112313	25 33212344	75 43422133	25 34432442
26 12443123	76 22434331	26 33243131	76 34312313	26 31211312
27 24313124	77 33321121	27 33131124	77 32112311	27 12433111
28 43212312	78 32113242	28 31123343	78 22313313	28 11243223
29 42343213	79 12211333	29 44312233	79 12133231	29 12434332
30 22324311	80 22132332	30 42432221	80 42324421	30 34442324
31 34233344	81 21231221	31 23134232	81 34321313	31 12331311
32 23112124	82 33233424	32 43312432	82 44322344	32 23321243
33 32432433	83 43123124	33 44431224	83 32123421	33 43334243
34 22113342	84 42324333	34 12242111	84 24424334	34 43121133
35 13123424	85 43132124	35 32122321	85 23213122	35 34212211
36 11221312	86 43422333	36 23243132	86 21233421	36 22311342
37 32423433	87 34422324	37 34442113	87 34223123	37 32342334
38 22112321	88 13232243	38 12344433	88 42113324	38 44433213
39 32113343	89 11242131	39 44232232	89 42331124	39 24313313
40 31244431	90 24433233	40 42342131	90 12311222	40 23423321
41 12213313	91 22323424	41 42421333	91 44224343	41 13213312
42 34422342	92 33121323	42 32312322	92 31123424	42 23323122
43 32311211	93 43423123	43 22313113	93 33423423	43 42112424
44 11122421	94 42332422	44 31132112	94 22423113	44 22231321
45 31312242	95 34431324	45 44313342	95 23324321	45 42421124
46 34321324	96 33112433	46 12342244	96 24322423	46 42321132
47 44423421	97 31133122	47 12424333	97 33432423	47 44324331
48 32334243	98 33421133	48 44423221	98 34432431	48 34224432
49 43322422	99 42423322	49 12334212	99 13432423	49 32311343
50 33324311	00 24211211	50 44244312	00 22344342	50 11312323





# 4001-8000 NISSAN

## Keyblanks:

Silca            DAT13  
 Taylor        X123  
 Ilco            DA25

## Code Machines:

1200 CM No.    XF67  
 Codemax No.    3 - 166  
 DSD Page Ref.   3-7

7251	7301	7351	7401	7451
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52 43124213	02 12332212	52 44221133	02 12113312	52 33234234
53 23433111	03 31121224	53 13311322	03 11242332	53 32224324
54 21133123	04 44231321	54 22233431	04 13243111	54 32122433
55 43133213	05 31112422	55 31123312	05 43211243	55 23443211
56 31122124	06 33243421	56 11342121	06 13213444	56 31231222
57 42421322	07 43322231	57 31243121	07 24322342	57 21231131
58 33344324	08 43422113	58 33123431	08 32234224	58 11322311
59 44233424	09 44223111	59 24331311	09 22444224	59 44222442
60 44432133	10 24323444	60 24331122	10 11322234	60 31231334
61 32312423	11 31122324	61 43223433	11 12113134	61 22431134
62 32421323	12 12223332	62 21324334	12 13124211	62 32232442
63 34221343	13 44224211	63 44242233	13 23324334	63 13244242
64 13212234	14 44332442	64 21223231	14 43342334	64 12432242
65 34312243	15 12132234	65 44332231	15 24442233	65 12344431
66 23424421	16 23322121	66 34311244	16 13421342	66 11333124
67 13224213	17 23323221	67 31123134	17 43324334	67 22433312
68 21344222	18 31231121	68 34332212	18 32434334	68 42232243
69 12344213	19 42344243	69 34332212	19 13133432	69 34213322
70 13223423	20 21244234	70 43133211	20 11344243	70 21234321
71 43242443	21 13434432	71 34331123	21 12113442	71 34424432
72 34312311	22 24324423	72 42432423	22 22112231	72 43134221
73 32112232	23 44423342	73 11344344	23 23443343	73 32321342
74 22113322	24 24421333	74 24432131	24 32213322	74 33121343
75 22433444	25 43322121	75 23123443	25 43133121	75 21213211
76 44231123	26 23443224	76 23243334	26 24421124	76 12421132
77 32332434	27 33421344	77 33231242	27 34434312	77 44212344
78 44334422	28 12311134	78 43213223	28 12312443	78 44332123
79 12344422	29 13112134	79 34243323	29 33242134	79 32222344
80 24213444	30 21312344	80 24321231	30 42243232	80 44321244
81 43332423	31 42243423	81 43222113	31 12344233	81 23434431
82 44332431	32 43422423	82 44223434	32 12211344	82 13442134
83 12132113	33 21233234	83 44332334	33 32121342	83 43443231
84 13432111	34 32223433	84 34443123	34 33122124	84 34421334
85 12244221	35 21131334	85 34344312	35 32232431	85 22243443
86 23323443	36 33342432	86 24432133	36 22244312	86 44343323
87 31134231	37 33443234	87 43421123	37 21313221	87 43242212
88 11332334	38 43113321	88 13342313	38 21311321	88 43213331
89 22331122	39 34342121	89 13334422	39 11244334	89 23124334
90 34243224	40 12112331	90 24344331	40 43333222	90 13342311
91 23333112	41 32233243	91 11332123	41 42443221	91 12231131
92 34423332	42 44244213	92 31233123	42 33311342	92 44433321
93 43323443	43 13342432	93 33243221	43 24421322	93 12132423
94 13331223	44 22324313	94 44242112	44 43133244	94 33432223
95 21334344	45 31134431	95 12113431	45 21243433	95 12242243
96 23211324	46 13233121	96 13112323	46 24322324	96 21231234
97 44244332	47 32221111	97 31112231	47 32133431	97 13443443
98 13324423	48 31243322	98 43113231	48 22344421	98 13322331
99 11232342	49 22333311	99 24321233	49 13422442	99 13321121
00 11132132	50 23421224	00 44344322	50 12312431	00 24213112





## 4001-8000 NISSAN

### Keyblanks:

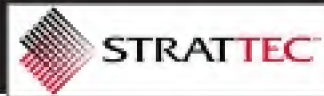
Silca DAT13  
 Taylor X123  
 Ilco DA25

### Code Machines:

1200 CM No. XF67  
 Codemax No. 3 - 166  
 DSD Page Ref. 3-7

7501	7551	7601	7651	7701
01 34234422	51 33122111	01 21233344	51 32111332	01 32432132
02 24324311	52 31233321	02 21334322	52 21231122	02 44213213
03 24312444	53 34234334	03 13442442	53 42343323	03 42431334
04 44422433	54 34334234	04 34321243	54 12343344	04 42333322
05 13112431	55 23422421	05 23433421	55 21244232	05 33422211
06 13421131	56 32133213	06 22244332	56 44433132	06 31112442
07 12221343	57 24423124	07 43313444	57 33232443	07 13242431
08 23123124	58 12332113	08 11311322	58 33442312	08 22423443
09 24333124	59 13431121	09 24223131	59 13113221	09 23332131
10 12343111	60 31331324	10 32321331	60 24322243	10 13424231
11 11211332	61 31134321	11 33213134	61 21112434	11 13312132
12 43213311	62 34213421	12 11132212	62 21134213	12 23243332
13 21243323	63 12134344	13 13133443	63 12134421	13 43212433
14 43432422	64 23233124	14 23311343	64 24331243	14 44213343
15 34221321	65 33131131	15 12222333	65 12443124	15 43123131
16 33244222	66 24311322	16 43433122	66 12113233	16 11323444
17 32243312	67 43233423	17 23221233	67 13421113	17 23334232
18 21224421	68 12433421	18 22342421	68 23121133	18 13124312
19 11221344	69 23233423	19 32212244	69 42432223	19 44222343
20 22121134	70 23131132	20 43331222	70 32133211	20 13231244
21 43122442	71 42131234	21 34311222	71 42132224	21 21342343
22 12124311	72 32324332	22 44233134	72 42223124	22 22443311
23 21122233	73 32344323	23 23133442	73 21333444	23 11323312
24 33342111	74 42322331	24 34312124	74 34233223	24 11221133
25 33212331	75 22131124	25 44422112	75 21343243	25 22334431
26 42122111	76 22121334	26 13421321	76 24424211	26 13122131
27 34423112	77 23113132	27 33344212	77 13132433	27 42123422
28 12431312	78 42211132	28 21213223	78 42232311	28 32134311
29 22132321	79 12211324	29 43234233	79 13124344	29 32133121
30 44221311	80 33211244	30 43124422	80 11323112	30 22213134
31 24344322	81 42234223	31 43112443	81 21113242	31 34231234
32 33244431	82 43234211	32 34332113	82 21223323	32 21344334
33 43211232	83 13244312	33 22434221	83 11334232	33 12213322
34 34312212	84 22124423	34 34213443	84 22113232	34 24344324
35 13222442	85 32212233	35 34431243	85 23322433	35 33121321
36 13322313	86 32321133	36 33422123	86 33211242	36 22342333
37 32134423	87 23342231	37 13213112	87 11343224	37 34433212
38 43432433	88 23112221	38 21243442	88 44222332	38 22123332
39 42122333	89 34311323	39 22131331	89 13231233	39 11233334
40 23132133	90 31133432	40 42331131	90 32443132	40 33433224
41 34344332	91 42432342	41 22244213	91 42123132	41 13433224
42 23213243	92 43123311	42 13444321	92 21332243	42 13244332
43 32443123	93 21244342	43 31322423	93 11242312	43 32123434
44 42133324	94 21243123	44 22234311	94 23124213	44 43113334
45 34222344	95 11243423	45 34312133	95 44331234	45 43331134
46 42333124	96 24234234	46 11323213	96 43234442	46 13122133
47 23442212	97 31231231	47 31344432	97 13312224	47 43213124
48 11232243	98 34212343	48 21113343	98 23231234	48 34421312
49 34224421	99 42231312	49 13132422	99 31121332	49 32312243
50 32121331	00 21343322	50 12233122	00 32132432	50 24432434





## 4001-8000 NISSAN

### Keyblanks:

**Silca**      **DAT13**  
**Taylor**    **X123**  
**Ilco**        **DA25**

### Code Machines:

**1200 CM No.**      **XF67**  
**Codemax No.**     **3 - 166**  
**DSD Page Ref.**    **3-7**

7751	7801	7851	7901	7951
51 32112443	01 13321134	51 33342131	01 4222 333	51 42334433
52 12333222	02 13112123	52 42331311	02 21343423	52 12212244
53 33112323	03 13224231	53 42331122	03 12342323	53 43343124
54 32133244	04 21311244	54 11244244	04 12213443	54 23213331
55 33221223	05 34424421	55 34423233	05 31243223	55 13433442
56 22113423	06 22113313	56 31113221	06 31332442	56 22431123
57 22433121	07 13232113	57 12132331	07 31234223	57 32213313
58 32423134	08 42242211	58 21134443	08 34231122	58 31224323
59 42443331	09 24221243	59 31311322	09 42332431	59 32422432
60 34223234	10 13222343	60 42343434	10 42342313	60 12312333
61 42222433	11 12431133	61 34244212	11 31322324	61 24234232
62 34311134	12 11342231	62 23312342	12 23334421	62 43442243
63 11223423	13 43224313	63 43122312	13 13122113	63 34233311
64 31122432	14 11242242	64 32324442	14 44243331	64 32211221
65 43242113	15 22311234	65 23321342	15 12212233	65 24243232
66 43332243	16 11244224	66 22442211	16 21311242	66 23313224
67 43433234	17 21334324	67 12422344	17 23113224	67 34422111
68 43233434	18 43433423	68 44223122	18 44212331	68 23322334
69 23233434	19 44233321	69 13132123	19 24431334	69 44244321
70 11232311	20 32433311	70 32324312	20 13312312	70 31221133
71 11323211	21 11231224	71 23211243	21 32443323	71 23321133
72 34244331	22 12311321	72 43321342	22 42443322	72 34224324
73 13222332	23 13242334	73 12124313	23 43224423	73 34234244
74 22334312	24 31133322	74 31233224	24 34334232	74 21322132
75 33131122	25 13311133	75 13342133	25 23332234	75 43322334
76 42242332	26 43132111	76 24333311	26 31244433	76 12334342
77 33442124	27 32422313	77 22331124	27 32423332	77 44421133
78 22442123	28 24333111	78 22431311	28 13234234	78 43321133
79 22243113	29 32344244	79 23231122	29 23332122	79 31211343
80 22234234	30 43242342	80 33322432	30 32334423	80 13122443
81 42134334	31 42422123	81 31332431	31 11222334	81 12323344
82 22343312	32 32331224	82 21123443	32 33443311	82 43242333
83 31331223	33 11333311	83 13243322	33 44313313	83 32211333
84 13422132	34 34433432	84 44234432	34 23244331	84 23122442
85 23344222	35 12322433	85 42244242	35 12123344	85 44344212
86 31133443	36 44312431	86 44423243	36 43323111	86 22233231
87 23243242	37 23213223	87 43233111	37 42332442	87 33134224
88 44431334	38 13432234	88 33112431	38 21132223	88 32233212
89 43234242	39 44213211	89 32331321	39 22342344	89 34243112
90 34342231	40 24422442	90 42243324	40 13221243	90 21223424
91 23234242	41 22123431	91 42334224	41 22311223	91 43443222
92 21213344	42 32322132	92 44313113	42 24313221	92 23321331
93 12122433	43 13442323	93 43311321	43 43322323	93 23211232
94 43212231	44 13231242	94 12224443	44 22132231	94 31211224
95 43213133	45 21133334	95 43123113	45 21224324	95 31133342
96 32344224	46 33211222	96 22331322	46 32132212	96 32232244
97 12421313	47 22113212	97 43313424	47 12134232	97 43321331
98 13242231	48 42221133	98 13233134	48 13133124	98 44421221
99 24433132	49 34422124	99 22313322	49 42233442	99 11133232
00 33222211	50 23324433	00 13112444	50 44432322	00 43133123



# Shop Talk

## Helpful Questions and Answers

**Written by all of the following authors: Dale Libby, Jack Roberts, Dave McOmie, Robert Sieveking, Don O'Shall, and Shirl Schamp.**

Send your locksmith questions, along with a self-addressed stamped envelope to: Shop Talk, The National Locksmith, 1533 Burgundy Pkwy., Streamwood, IL 60107.

*Q: Recently I read a bulletin from Ilco Unican concerning the 1989 Honda keys. It stated that the use of the pre-1989 blank in 1989 models would result in not being able to take the key out of the ignition.*

*First I want to know what inside the 1989 model lock is binding the key? If possible can you supply a diagram? Next I would like to know if there is a way to release it without disassembly. I was wondering if a shim could be worked along the side of the key in some way to release the key. I have not yet encountered this problem, but I would like to know how to fix it.*

*Rodney Fuentes  
Texas*

**A:** This is interesting, because I believe most of us are going to fall into this trap. From the information I have acquired, it appears the shank of the new blank is slightly longer. (The shank is the area between the blade and the bow.) This creates a problem once you have turned the ignition to the on position. If you are using the wrong blank with the shank shorter than what is required, it restricts the ability of pushing in and turning to the off position. When you attempt to push in, the bow contacts the face of the lock stopping the action.

I suggest you keep this in mind from the beginning and not fall into this trap, but if it should happen, what I would do is either cut the bow from the key while its in the ignition or snap it

off. Either way it is preferable to leave just a little protruding out of the lock, because what you are going to do is use a pair of needlenose pliers and push in and turn back to the off position. Pull the key out and transfer it onto the correct blank or to one with the correct alterations. Remember that little bit sticking out because you do not want to have the job of digging it out. 02

\*\*\*\*\*

*Q: Thank's for a great magazine! I have a question for you on an old padlock that has come into my possession. (See photograph 1.) It is*



**1. Padlock submitted for identification.**

*quite an attractive lock. Can you please give me any information available on this padlock?*

*Murray Roe  
Missouri*

**A:** Well Murray, you have a real gem here. For starters, this padlock is shown in a recent collector's price guide at \$175. This piece is typical of padlocks produced by John Gerard of Trenton, NJ and assigned to the Trenton Lock Co. in the late 19th century. Collectors refer to this and other Gerard designs as "story padlocks" although they could be classified as "push-key" single-spring lever.

The beautifully scrolled letters, NH Co. are believed by many to mean

National Hardware Co., however, extensive research by several people has not revealed a company by that name. There are two known types of NH Co. padlocks. Yours is called type one and differs from type two in that it has a flat shackle while the type two has an indented shackle (a groove in the sides).

The NH Co. scroll is also found on the back of two other Gerard designs: the "skull and crossbones" and the "evil eye." From your photo I am guessing that this piece is made of cast iron but if it should be of brass you have a real treasure with a value upwards of \$500.

An original key has several cuts but only a couple of these are really necessary since the locking mechanism consists of a single point spring latch. An operating key can be made from a flat steel Ilco #1210A with just a little bit of impressioning and of course it can be opened using a straight pick which you apparently have done.

For a complete history of John Gerard designs you may want to send for a copy of "Story Locks" by Terry Roses. This book is available from Lee Jacobs Productions, P.O. Box 362, Pomeroy, OH 45769, or from Terry L. Roses, 107 W. 1st St., Duluth, MN 55802. Sorry, I don't have the current price of this publication. 03

\*\*\*\*\*

*Q: Illustration two is a reduced tracing of an escutcheon plate that I am trying to identify. There are openings in the plate for the knob and for a bit key. Do you know where I might find more of these plates?*

*Robert Rubin  
Missouri*

**A:** Bob, this looks like the proverbial needle in the haystack and your question leaves a lot to be desired. Before we would be able to come up with any kind of an intelligent answer we need some additional information. Is this a cast ornamental type of escutcheon or

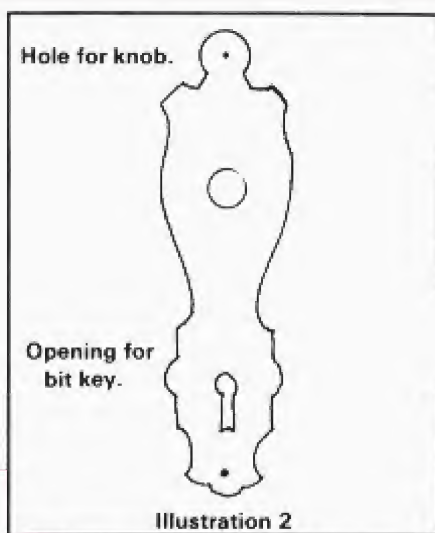




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freight!!

No middle  
man!!

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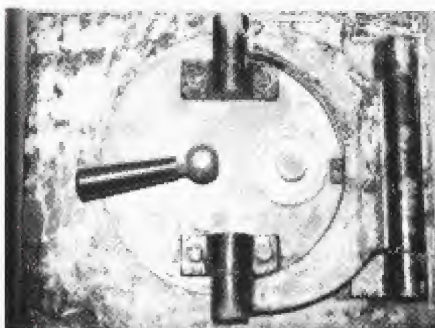


is it stamped out of light steel? Is it brass or brass-plated? Have you removed the lock from the door to see if there is a manufacturer's name or logo? Are there any part numbers showing anywhere on the lock or the plate?

This could have been manufactured by any one of hundreds of lock companies in the early part of the century. If this is a cast piece with a lot of ornamentation I would suggest that you get a good clear photo and send it, together with your outline drawing to Art Paholke, R.L, 122 Hacendia, Hot Springs, AR 71909. If anyone can identify this piece I am sure that Art is the person to do it. 03

\*\*\*\*\*

*Q: We are in the safe business in a very limited way. We do not do any openings of locked containers. We recently aquired the safe in photograph three and would like to try our hand at drilling and opening.*



3. Front view of a safe door and hinge assembly.

*I have tried to identify this lock. Is it a Yale T. 029 1/2? If so, what are the drill point and drop in point?*

*I am a subscriber to The National Locksmith and have enjoyed the safe articles you run.*



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## ASP Covers the World of Auto Locks

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Michael Novak  
Michigan

A: Mike, you have yourself an old National Model E Round Door Cast Steel Chest. This is a tri-bolt door equipped with an old Yale no. 0402, which is actually a miniaturized OC5.

There are three choices for opening procedures. 1. Drill at 86 x 1-1/16 for a scope hole. No transferring is necessary; just align the gates directly under the fence. 2. Drill a couple of 1/2" holes through the bottom. Remove three back plate screws, then undo the four back cover screws and remove the wheel pack of the 0402. Turn the dial left to stop, and the safe is open. 3. Punch the lockbolt in. This is messy and is a last resort. Good luck. 04

\*\*\*\*\*

Q: Could you help me identify a key blank for this lock? The customer that brought it to me says it is about 40 years old. The lock case appears to be wrought iron and the shackle is brass. (See photograph 4).



4. Wrought iron padlock submitted for identification.

The Keyway is in line with the shackle. That's because the plug and shackle are one piece. If you turn the same picture upside-down there is a five digit number (Y3246) that is stamped in a circle on the plug. This is probably the key code. This is very hard to see so I am describing it with detail.

The keyway is just a slot with no grooves. You can turn the shackle 180 degrees and see the top pins. The bottom pins are serrated. When picking the lock you have to apply pull pressure to the shackle. I did this with a turn wrench under the free end. The shackle is spring-loaded to pull down so when



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you line up the case with the shackle it snaps down and locks. There is a small detent notch which holds up the shackle until it aligns with a slot when turned to lock.

I have the new Ilco no. 60 catalog and can't find anything that might work. The lock itself is 2" wide, 3/4" thick and 2 1/4" total height, and it is a Yale. There is some writing on the shackle that reads "Yale & Town Mfg. Co." The other side reads "Stanford Conn. U.S.A." I hope this is enough information to go on. Thanks for any help you can offer.

Kirk Drake  
Massachusetts

A: Thank you, Kirk, for the excellent photograph and the accurate description of your customer's lock. Details like this make *Shop Talk* answers easy for us. The lock is a Yale 805 and was manufactured from about 1897 until 1926. A similar model was continued until 1966 but the logo was slightly different and did not have the cloverleaf key head design on the back.

You have done well in picking the lock open and are halfway there in making a key. This type of lock, push-key, pin tumbler, can also be opened by shimming from the key hole end of the shackle-plug. The code, Y3246, is found in the Yale #9 series and the cuts are 7375. I do not recommend cutting a key by code since there is a rather confusing formula that must be used, and since the original keys were fitted by hand the code is not always correct.

With the lock open, place a square type of easy-out in the shackle nose plug and unscrew the plug. You will see the shackle spring. Move this spring towards the outside of the case as far as it will go and use a follower to remove the shackle-plug. You can use an Ilco #1031 or #1239 to make the key. (Ilco Cat. #60, Sec. 6a, pg. 8; Sec. 6b, pg. 1.)

I would suggest that you replace the existing pins since the originals are usually well worn. You can create a new code on a 999 and then duplicate that onto a 1031. You will notice that the last pin is extra large and you probably won't be able to replace it. This large pin is unique to Yale push key padlocks and is there to keep the end of the key from tipping up.

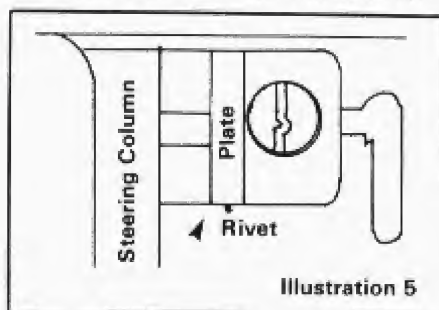
This pin is always found in locks with a "Y" code. Be sure to make that last cut on the key extra wide. There are millions of this type of padlock, made by almost every manufacturer of the period, but Yale is the only one we have seen with this large pin. When you have

fitted an operating key follow the shackle-plug back into the case, move the shackle spring into its groove in the shackle, replace the shackle nose plug and you will have an operating padlock in your hands.

You didn't ask, but the collector value of a lock this type is in the \$5 to \$10 range. Thanks for writing to *Shop Talk*, Kirk, and thanks again for the details you included in your question. 03

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Q: The ignition lock in illustration five is found on what is supposed to be a 1930 model Buick. The keyway is a double-bit like a Chicago K4 except that the blank would have to be longer.



The lock is mounted to the steering column and is part of the bracket that fastens the column to the dash.

The lock has a flip lever that turns the ignition on/off and a display window that reads on/off.

When picked the lock turns halfway around to the left and pulls the shaft of the flip lever in as the plug turns locking the ignition and steering.

I have removed all that I can without damage and cannot find any way to remove the plug.

Is there any information you can give me? I believe I could fabricate a key if I could remove the plug or had space and depth information. I would appreciate it if you can give me any information.

W.A. Whaley  
Georgia

A: There really isn't anything new is there? Everything seems to go full circle and column mounted locks are no different than anything else. The first records that we can find for a double-sided key for GM cars is 1934. These were made by Briggs and Stratton for GM and used grooves 11, 12, and 13. Your drawing appears to be a groove 11.

It was not unusual for a manufacturer to try a new item on a particular model for a year or two before merging

it into the full line and this may explain why the lock is on a '30 Buick. This happens even today such as the VATS on the Corvette.

We do not have any additional information such as profiles, depths, spacings, etc., and suggest that you write to Wayne Finney, 144 Crescent Dr., Akron, OH, 44031. Give him all of the information you can garner including a close-up photograph of the keyway. Wayne specializes in old and antique automobiles and I am sure that he will be able to help you with this project.

Thanks for writing to *Shop Talk* with this reminder of the full circle. 03

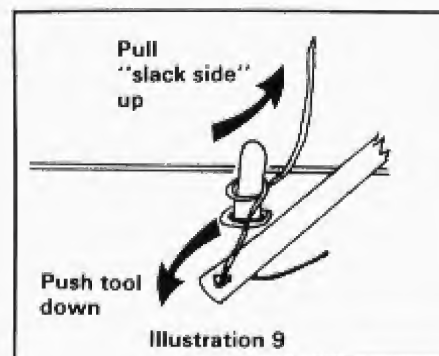
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## Technitips

Continued from page 16

String the tool with a piece of 40 lb. braided fish line. (The braided line works best because it does not slip off the button as easily as the monofilament type line. A little violin rosin on the line will improve the grip.) Knot the fish line on both sides of the spring, so it does not slide freely through the hole. This will enable you to pull the line on one side of the tool to lead the line on the other side (slack side) of the tool around the button.

After a couple of turns have been dropped over the lock button, push the tip of the spring tool below the lock button and pull up on the slack side of the line, as shown in illustration nine to unlock the door. Take careful notice of the "half hitch" knot that you create on the lock button. It will pull up smooth buttons as well as the headed type if you are careful.



It may be necessary to place a slight bend in the tip of the tool to get it started around the rubber weather strip of some autos, but I am sure that many locksmiths will find this tool very handy.

Hubert Chase  
Missouri